AMERICAN RIFLEMAN

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BRUCE M. BURCHARD
RT. # 1, BOX 269
WALNUT CREEK, CALIF.

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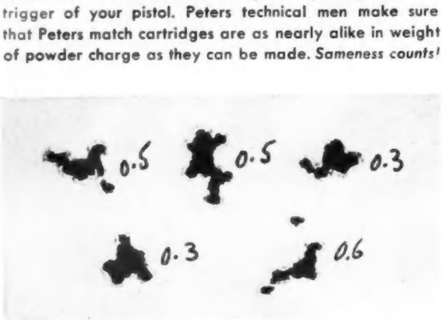

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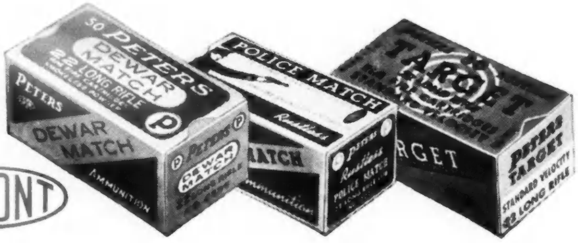

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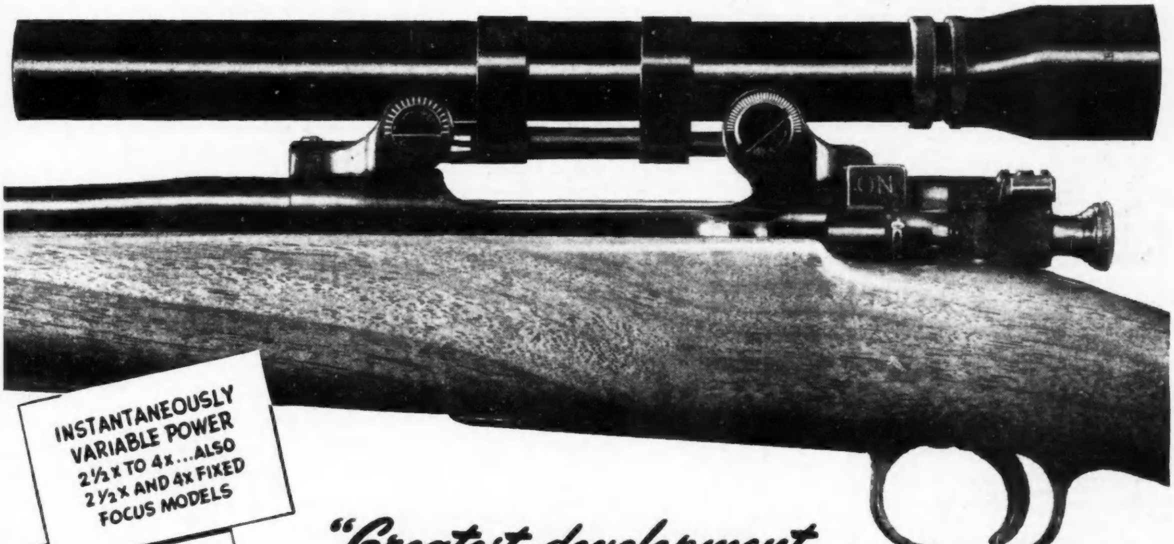

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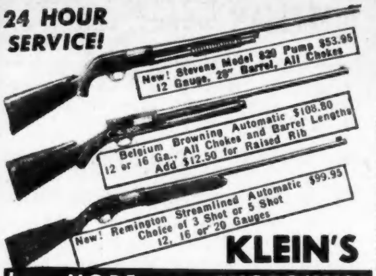
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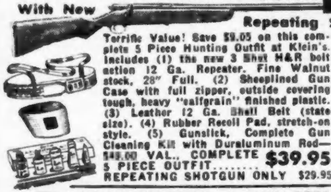


Terrific Value! Save $9.05 on this complete 5 Piece Hunting Outfit at Klein's. Includes (1) the new 3 Shot H&R bolt action 12 Ga. Repeater. Fine Walnut stock, 28" Full. (2) Sheeplined Gun Case with full zipper, outside covering tough, heavy "calfgrain" finished plastic. (3) Leather 12 Ga. Shell Belt (state size). (4) Rubber Recoil Pad, stretch-on style. (5) Gunslick, Complete Gun Cleaning Kit with Duraluminum Rod—$49.00 VAL., COMPLETE 5 PIECE OUTFIT........ **$39.95**

REPEATING SHOTGUN ONLY $29.95

POLY-CHOKES—1 DAY SERVICE

For best shooting results have Klein's master gunsmiths install a Poly-Choke on your gun. No extra charge for cutting barrel to desired length, removing minor dents and polishing barrel. 24 Hour Service! Write for free Poly-Choke Handbook and free shipping carton or send your barrel only directly to us. Price includes parcel post both ways in U. S.

Standard Poly-Choke	$14.75
New Ventilated Poly-Choke (illustrated)	$18.75

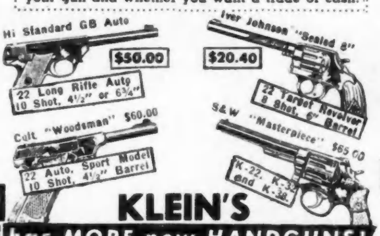
KLEIN'S NEW GUN LEADERSHIP

227 W. WASHINGTON ST. CHICAGO 6, ILL.

• Every gun shown on this page is Brand New, factory packed and guaranteed • Every gun is rock-bottom priced • Klein's also have thousands of Used Guns, unconditionally guaranteed • If you do not find the New Gun you want in this ad, or if you want a good Used Gun, write us your needs or send $1.00 for the Catalog, Gun Digest and Merchandise Certificate described elsewhere on this page.

TRADE GUNS!

Your guns are worth more at Klein's! America's oldest and largest gun traders GUARANTEE YOU THE HIGHEST TRADE-IN ALLOWANCE or CASH PRICE for your guns • Ship your gun today express, collect or parcel post for appraisal • Satisfaction guaranteed or your gun will be returned at once • If you prefer, write us about your gun and whether you want a trade or cash.



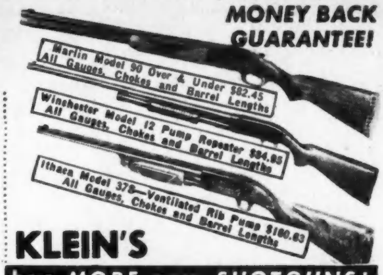
KLEIN'S has MORE new HANDGUNS!

S & W "Masterpiece" Target Revolvers:

Dependable, rugged, accurate. A favorite with shooters who want the best. Features rib barrel, high speed hammer, micrometer click adjustable target sights. Checkered Circassian walnut grips. 6 shot, 6" barrel. K-22 shoots 22 Short, Long, or Long Rifle cartridges; K-32 shoots 32 S&W Short or Long cartridges, and K-38 shoots 38 Special Service & Target Loads.

State choice of K22, K32 or K38 Revolver, each	$65.00
S&W 32 Hand Ejector. 32 S&W Long Caliber 6 Shot. Round Butt 3¼" or 4" Barrel, Blued	$ 51.25
S&W M&P 38 Special. 4", 5" or 6" Barrel	$ 56.50
Hi-Standard H-B Auto, 4½" or 6¾" Barrel 22LR	$ 42.15
Hi-Standard H D - M Auto, 22 Caliber, 4½" or 6¾"	$ 55.00
Hi Standard GD, 22 Auto, 4½" or 6¾" Barrel	$ 60.00
Hi Standard G-E; 22 Auto; 4½" or 6¾" Barrel	$ [illegible]
H&R "922"—22 Cal. Target Revolver, 9 Shot, 6" Barrel	$ 24.75
H&R Sportsman—22 Cal. Target Revolver, 9 Shot, 6" Brl.	$ 44.95
H&R Starter Revolver; 22 Blanks, 5 or 9 Shot	$ 22.67
Iver Johnson 22 Target Revolver, 9 Shot, 6" Barrel	$ 20.40
Iver Johnson 22 Supershot 833 Target Revolver, 6" Brl.	$ 37.75
Colt 38 Super or 45 Auto Pistol	$ 65.00
Colt 22 Conversion Unit for Above	$ 40.00
Colt "Woodsman Target" 6" Auto, 22 Caliber	$ 70.00
Colt "Woodsman—Match Target" Auto, 22 Caliber	$ 85.00
Carved Leather Holster. State Type Gun & Brl. Length	$ 4.95

MONEY BACK GUARANTEE!

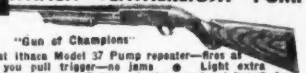

Marlin Model 90 Over & Under $82.45
All Gauges, Chokes and Barrel Lengths
Winchester Model 12 Pump Repeater $84.95
All Gauges, Chokes and Barrel Lengths
Ithaca Model 37S—Ventilated Rib Pump $160.63
All Gauges, Chokes and Barrel Lengths

KLEIN'S has MORE new SHOTGUNS!

SALE! New Single Barrel Shotguns. Famous Makes! All Gauges & Brl. Lengths, $16.95

Savage 755 Streamlined Automatic, 12 Ga., Std. Wt.	$ 94.50
Savage 775 Streamlined Lightweight Auto., 12 Gauge	$ 99.85
Browning Belg., Automatic Light 12 or Sweet 16	$124.50
Browning Belg. Automatic Light 12 Ga., Rib	$137.00
Browning Over & Under, 12 or 20- Gauge, Raised Rib, Choice of Chokes & Barrel Lengths	$219.00
Browning, as above with Ventilated Rib	$244.00
Remington 31A or 31LA Pumps, All Gauges	$ 84.95
Remington 31TC, 12 Ga., 30" Full; Vent. Rib	$178.50
Fox Model B, Double Barrel, All Gauges	$ 62.50
Nydar Shotgun Sight, $19.95 Value	$ 9.95
"Plainsman" Air Shotgun, 28 Caliber, Single Shot (28 Caliber Shells, 49c per box of 25)	$ 16.95
00 Buckshot, Hi-Velocity, Case of 675 Shells (27 Boxes)	$26.95

$83.50 ITHACA "FEATHERLIGHT" PUMP

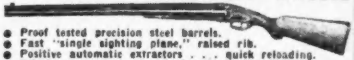


"Gun of Champions"

The great Ithaca Model 37 Pump repeater—fires as fast as you pull trigger—no jams • Light extra tough alloy steel • Bottom ejection—enclosed breech for safety • Quick takedown — no tools required • Select hand-rubbed walnut stock and slide handle • Attractive game scenes on side of receiver • State choice of 12, 16 or 20 gauge, barrel length, and choke: Model 37—Std. Grade ..$83.50; 37R—Solid Rib. $98.50; 37S—"S" Grade, Vent. Rib. .$160.63; 37T—Trap Grade, Vent. Rib. .$187.39.

ITHACA SPECIAL! Your choice of Pachmayr or White Line Recoil Pads, furnished and custom fitted on any new Ithaca Shotgun. State desired overall stock length including recoil pad and choice of Skeet, Speed, or Regular style pad. $7.50 Val. **$3.95** Complete

L. C. SMITH "FIELD GRADE" DOUBLE



- Proof tested precision steel barrels.
- Fast "single sighting plane," raised rib.
- Positive automatic extractors . . . quick reloading.
- Select walnut stock . . . checkered grip and forearm.

Simple, dependable, safe and perfectly balanced! Double triggers. State choice of barrel length and choke in 12, 16, 20 or 410 Gauges. (Add $34.70 for selective single trigger, if wanted) **$98.95**

SAVE $7.05 !

• Quality Economy •

Now! Famous "Field & Stream" hunting clothes specially priced. Made of extra sturdy snag-proof, water-repellent brown Army duck. Bar tacked and heavily stitched for strength. Full, roomy cut. Useful features sportsmen want.

THE COAT—All-around let-down blood-proof game pocket, front and back entrances, bi-swing back; hand warmer pockets; utility shell pockets plus shell loops under flaps. Was $11.00, NOW $7.39

THE PANTS—2 layers of material on leg, front and on seat for double strength. 2 front and 2 hip pockets; watch pocket. Choice of Straight Style or Zouave (knit bottom). State size. Was $8.00 .... NOW $5.88

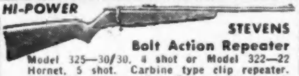
MATCHING CAP—Solid red when reversed $1.35

3-PIECE OUTFIT—Above Coat, Pants and Cap, all for only $13.95

FAMOUS "Bone Dry" Boots—Heavy duty, lightweight, pliable leather boots. Water-resistant, chrome-tanned leather, long wearing corded soles. Hand sewn, 9" High. Exceptional Value! State size. $14.95

KLEIN'S has MORE new RIFLES!

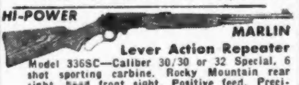
HI-POWER



STEVENS Bolt Action Repeater

Model 325—30/30, 4 shot or Model 322—22 Hornet, 5 shot. Carbine type clip repeater. Short throw bolt action. Tapered 21" barrel. Ramp front, adjustable rear sporting sight. Special, ... **$39.95**

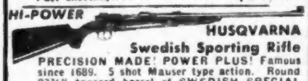
HI-POWER



MARLIN Lever Action Repeater

Model 336SC—Caliber 30/30 or 32 Special, 6 shot sporting carbine. Rocky Mountain rear sight, bead front sight. Positive feed. Precision Ballard rifling in 20" tapered barrel. Black walnut pistol grip stock and forearm. Fast aiming! Fast shooting! **$61.45**

HI-POWER



HUSQVARNA Swedish Sporting Rifle

PRECISION MADE! POWER PLUS! Famous since 1689. 5 shot Mauser type action. Round 23¾" tapered barrel of SWEDISH SPECIAL STEEL. Front ramp sight with hood, adjustable sporting rear sight. Genuine Swedish Bok-wood stock, finely checkered. Wt. 7¾ lbs. Choice of 270 or 30/06 Caliber **$129.95**

Savage 219, 30/30 Single Shot, Auto. Ejector	$ 28.80
Mossberg 152 Auto. 22 Caliber Carbine	$ 26.95
Winchester 94, 30/30 or 32 Special Carbine	$ 62.45
Marlin 336A Rifle, 30/30 or 32 Spl., 24" Brl.	$ 72.55
Marlin 336ADL Deluxe Rifle, 30/30 or 32 Spl.	$ 87.50
Remington 721 - 270 or 30/06, 5 Shot	$ 79.95
FI Mauser Sporter, 270 or 30/06 Caliber	$158.50
FN Mauser 270 or 30/06 Custom Sporter	$186.80
Sale! 22 Cal. Single Shot, Bolt Action Rifles $10.95 Value	$ 7.95
Marlin 81DL, Bolt Action Repeater, 22 Cal.	$ 28.90
Sale! Marlin 22 Bolt Action Repeater, Salesmen's and Store Samples	$ 19.95
Remington 550, Auto, 22 Short, Long or LR	$ 34.95
Remington 521TL, Bolt Action, 22 Target	$ 36.95
Winchester 62 Pump, 22 Short, Long and L.R.	$ 42.95
Savage 29, Hammerless Pump Repeater	$ 42.95
Sale! New Mossberg 151M or Marlin [illegible] Autos. 22 L.R. Salesmen's Samples, Values to $32.50	$ 24.95
Remington 121 Pump, 22 Short, Long and LR	$ 49.95
Winchester 63—22 L.R., 10 Shot Automatic	$ 63.50
Remington 241 Auto, 22 Long Rifle, 10 Shot	$ 63.50

SCOPES! COMP. LINE. WRITE FOR INSTALLATION COST. ALL STD. MOUNTS.

Weaver J-2.5. Cross-hair reticule	$22.50
Weaver K-2.5. Cross-hair reticule	$37.50
Weaver K-4, 4 Power	$45.00
Weaver K-6, 6 Power	$48.50
Mossberg Riflescopes, 4 Power	$ 9.35
Bausch & Lomb 60mm Spot Scope	$95.00
Mossberg Model A Spotshot	$24.90
Weaver G-4, 4 Power	$ 9.75
Lyman "Alaskan" 2½ Power	$60.00

SAVE $10.05 On The New JOHNSON INDOOR TARGET GUN

$4.95

Add 50c for Packing and Handling Charge

Safe for children ... sporting accuracy for Adults! Elastic propelled 65-shot repeater. Sights adjustable for windage and elevation—5 to 10 shot groups of less than ½ inch at 20 to 25 feet. Heavy steel and plastic construction. Complete with steel and paper targets and extra propulsion units. Generous supply of BB's included

As shown in "Life" Magazine for $15.00 **$4.95**

Sportsmen . . .

The GUN DIGEST
KLEIN'S
$1.00 MDSE. CERTIFICATE

We Apologize

. . . greatly increased catalog preparation costs have prevented us from sending our latest catalog free to our many friends. To convince you of our desire to serve you we offer instead—for a limited time—

$2.75 Value For $1.00

Here's What You Get —

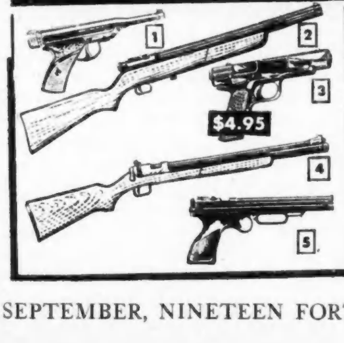
1 KLEIN'S SPORTS CATALOG — Loaded with bargains in hunting, camping and fishing equipment. Includes complete up-to-the-minute list of 2,000 available New and Used Guns. Also Gun Trading Dope! Latest edition!

2 THE GUN DIGEST—World's greatest Gun Book. 164 giant size pages, 650 big illustrations, articles galore. The only authentic guide to American and Foreign rifles, shotguns, handguns and accessories. Sells for $1.50 everywhere!

3 Merchandise Certificate—Worth $1.00 on any mail order or retail store purchase of $5.00 or more from Klein's Sporting Goods, 227 W. Washington, Chicago 6.

Pin A Dollar to the Coupon •Below•

KLEIN'S has MORE new AIR GUNS!



1. Hy-Score Air Pistol. No pumping—simply break open between shots. Available in 177 or 22 caliber for pellets and darts or may be had in standard B B gun. State choice.

Single Shot, Blue Finish, Walnut Grips	$19.85
6 Shot Repeater, Blue Finish	$24.95

2. Crosman Town and Country Jr. Sturdy Single shot pneumatic bolt action Air Rifle, Shoots 177 or 22 caliber pellets. (State choice) $14.95
Crosman 20 Shot Bolt Action Repeater $22.60

3. Marksman Air Pistol. Looks and Feels like U. S. Army 45 Auto. Accurate and Powerful. Shoots 177 caliber pellets, darts and BB's. Generous supply included. Specially Priced **$4.95**

4. Sheridan "Sporter". Highest quality workmanship and materials of any pneumatic air rifle. Features power, accuracy, balance and beauty. Single shot, 5mm caliber $35.00

5. Crosman Air Pistol. Powerful, silent, and accurate. Single shot. Shoots 177 or 22 cal. pellets (state choice) $14.95

Ammo. Sale Priced!: Pellets (Box 500) 177 Cal. .99c, 22 Cal. .$1.29, 5mm. .$2.00; Darts (per doz.) 177 Cal. 39c

KLEIN'S
Sporting Goods
SINCE 1885
227 WEST WASHINGTON ST. CHICAGO 6, ILL.

Invitation

We can illustrate and list only a small portion of our huge gun and sporting stock in this limited space. write for whatever you want that is not shown here, or for complete list see amazing offer above.

UNCONDITIONAL MONEY-BACK GUARANTEE ON EVERY PURCHASE!

Rush me.............................. Size.................. Dept. 5-9
(Use bottom of page or separate sheet for additional items. Your Name and Address)
☐ Enclosed is $.................... for payment in full.
☐ Ship C.O.D. Enclosed is $.................... (20% deposit required).
☐ Hold for me in Layaway. Enclosed is $.................... (10% deposit required). I will pay balance in installments of $5.00 or more monthly.
☐ I am shipping my gun for Trade or Cash as explained in the attached letter.
☐ Enclosed is my $1.00 deposit for the Catalog, Gun Digest and Merchandise Certificate. (Orders filled same day received.)

IMPORTANT NOTICE to PURCHASERS of FIREARMS or AMMUNITION

Kindly sign the following statement: "I am not an Alien, and I have never been convicted of a crime of violence, nor am I under indictment or a fugitive from justice."

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Since 1880
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Pick up that Ithaca FEATHERLIGHT Repeater — there's a backing of three generations of gunmaking in your hands! Nearly three quarters of a century's worth of skill and precision are in it. You've got something in that FEATHERLIGHT!

As the Ithaca Gunmakers say, "We can't make all the guns in the world, so let's just make the best."

We're not caught up yet—so—be sure of getting your FEATHERLIGHT Repeater by seeing your Ithaca Dealer now. We'll tell you where your nearest one is.

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RIFLEMAN WORDS • • • •

Each month this 'lexicon for shooters' is devoted to a few words peculiar to the shooting game which may be puzzling to the newcomer.

AUTOMATIC—A type of small arm which, after the first shot has been manually loaded and fired, will eject the fired case, load another cartridge from the magazine, fire and eject that cartridge, and repeat the process as long as pressure is maintained on the trigger or until the cartridge supply in the magazine is exhausted. These operations are performed by utilizing the forces of gas pressure, recoil and mechanical spring action. Commonly, but incorrectly, applied to such semiautomatic weapons as the .45-caliber Colt pistol. *See semiautomatic.* Many firearms are adapted to both automatic and semiautomatic fire, with a change-lever provided to effect the change from one type of fire to the other.

FIRING PIN—That part of a firearm's mechanism which, upon being actuated by a spring when the trigger is pulled, strikes the cartridge primer, igniting the powder in the case and thereby discharging the gun.

LEVER ACTION—A type of rifle action which has a lever connected to the breechblock to permit opening and closing the breech. The lever is usually mounted under the receiver or frame so that it forms a trigger guard and extends to the rear along the underside of the stock or pistol grip.

O'CLOCK—A term used to indicate the location of a hit on a target or the direction from which a wind is blowing by reference to the position of the figures on the face of a clock. In the former case, the top of the target is twelve o'clock and the bottom is six o'clock, three o'clock indicating a hit to the right of center, nine o'clock one to the left of center. In wind direction, the shooter is considered at the center of the clock face and the target at twelve o'clock. Thus a twelve o'clock wind is one which blows directly from the target to the shooter while a six o'clock wind moves from behind the shooter in the direction of the target and a three o'clock wind is one which blows from the shooter's right side.

RIFLING—Spiral grooves cut into the bore of a firearm barrel to impart a spinning motion to a bullet around its long axis. Spin tends to stabilize the bullet during flight, keeping it moving toward the point of aim with point foremost.

SEMIAUTOMATIC—A type of small arm which utilizes the forces of gas pressure, recoil or mechanical spring action initiated by the firing of a cartridge to load and cock the arm for the next shot. Unlike an automatic arm, the trigger of a semiautomatic must be pulled to fire each shot. Typical semiautomatic weapons are the .45-caliber Colt 'automatic' pistol, the M1 (Garand) rifle, and the Colt 'Woodsman' pistol.

WINDAGE—The influence of moving air in deflecting a bullet from the point at which it is aimed. The word is also applied to the horizontal adjustment of a sight.

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SPECIAL PRICE IN LOTS

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Exact Size

ACE RAMP SIGHTS-COMPLETE, GOLD BEAD OR IVORY $6.00

FLAIG-ACE GUN STOCKS

Pennsylvania Black Walnut, fully dried. All grades available. Left or righthand cheekpiece, full close up pistol grip.

STANDARD GRADE ....NOW	$5.00
XX Grade But Log wood ....NOW	7.00
XXX Grade Burl ....$15.00 to	20.00
XXXX Grade Rare Burl	25.00
XXXX Grade SUPER Burl	35.00
CURLY MAPLE Inletted Stocks ..$8 to	25.00
APPLE WOOD Inletted Stocks $10 to	35.00
WILD CHERRY Inletted Stocks $6 to	15.00

The above stocks for Mauser 98, FN, Kar 33-40, Mexican Mauser Single Shot or 5-Shot, Winchester 54, 70, & 52, Remington 30, 721, 722, & 37 Target, Springfield '03, Enfield '17, Krag or Krag Single Shot, Jap 7.7 & 6.5.

Shotgun Blanks of Black Walnut $1 to	2.00
Curly Maple ....$2.00 to	12.00
Apple Wood ....$2.00 to	12.00
Wild Cherry ....$1.00 to	5.00

Mannlicher style stocks $10.00 up.

Ask for Folder No. 16. SPECIAL!!!

We turn and inlet your blanks left or right hand cheekpiece	5.00

Flaig Ace Trigger Shoe, Mauser 98 F. N. K22, K-38 Colt O.M. or Military with wrench $2.00

ACTIONS & BARRELS

Springfield Actions, new late-style bolts with new 22" .257 or .270 Johnson Chrome-Moly Featherweight Barrels fitted, in-the-white, headspaced, proof-fired	$52.50
Mauser 98 Actions, all milled, VG, with 30-06 22" Featherweight Barrels fitted, Chrome-Moly Johnson made, in-the-white, limited number available	52.50
FN Action, late style, with new Johnson or Ackley Sporter-Weight Barrel fitted, headspaced, in .257, .270, 7mm, 30-06, .300 Savage, in-the-white	69.00
FN Actions, 25" Medium Weight 22-250, .220 Swift Barrels fitted, white, magazine box built in for short cart.	$73.00
Mauser 98 Actions, issue, VG, all milled, with new 30-06 or .300 Savage Barrels fitted, headspaced, 4 gr., not blued, magazine altered, clip feed changed	50.00
FN Actions, NEW	45.00
(Special Prices on above, in lots)	
FN Stripped Bolts, new low scope	12.00
FN Trigger Guards, stripped, milled	7.00
FN or Mauser 98 Extractors, new	3.00
Johnson Chrome-Moly 30-06 Barrels for Enfield, 22" Featherweight, partially chambered $12.00. Fully chambered and fitted to action supplied by you	17.00
Krag Barrels, 4gr. made from Enfield	12.00
Krag Barrels, 4gr. made from Spgfld.	17.00

NEW GUNS

K22 Masterpiece K .38 Caliber	$65.00
Smith & Wesson M&P, 4", 5", or 6"	56.50
Colt Officers' Model, .22 or .38	75.00
Colt .22, .38 and .45 Units	35.00
Model 12 Winchester, 20, 16, 12 ga.	84.95
Remington 31 LA 16 Twelve Gauge	83.50
Ithaca Model 37, 20, 16, 12 Gauge	83.50
Savage 12 Gauge Auto, Model 720	94.50
Savage 12 Gauge Auto, Model 745	99.85
Remington Sportsman Auto, 12 Gauge	99.00
Ithaca 20 Gauge, Model 37-S	160.00
Winchester Mod. 12 Trap, 30"F, rib.	118.95
Savage Number 6 Auto, .22 Caliber	32.45
Winchester Model 75 Sporter, .22 Cal.	49.40
Winchester "62", .22 Short only	37.50
Winchester Model 63 Auto, .22 Cal.	63.50
Winchester "69", .22 Cal., Pen Sights	23.95
Winchester "94", 30-30, .32 Special	62.45

SCOPES

Unertl Hawk Scope, Coated 4X	52.00
Unertl Condor Scope, Coated 6X	66.00
Lyman Targetspot, SUPER, 12x15, 20X	90.00
Unertl Falcon, 2¾X	48.00
Unertl Varminter, 6X, 8X, 10X	75.00
Lyman Alaskan, 2½X	60.00
Lyman Challenger, 4X	85.00
B & L Binoculars, 6x30, 7x35	186.00

PRIMED CASES

Western 32 Special	(C)	$6.00
.257, .250-300 Winchester	(C)	7.50
30-40 or 30-06 Remington	(C)	8.00
.300 H & H, Winchester make	(C)	10.00

BULLETS

.22 Caliber Sierra, 45, 50, 55 gr.	(C)	$2.75
.30 Caliber Sierra, 150 gr. S.	(C)	4.50
.25 Caliber Winchester, 100 gr., HP	(C)	4.00
.270 Cal. Winchester, 130 gr., HP	(C)	4.20
.30 Caliber Speer, 110 gr.	(C)	4.25
.30 Caliber Speer, 150 gr., 180 gr.	(C)	4.50
6.5 Caliber, 120 gr.	(C)	4.00
7mm Speer 130 gr.		4.50
.280 cal. 160 gr.		4.50
8mm Speer, 125 gr., 170 gr., SP	(C)	4.50

AMMUNITION

30-06 MC Ammo, late date, 150 gr.	(C)	6.00
Case Lots 1500 Rounds		78.75
.45 Government MC Ammunition	(C)	4.00
Above in lots of 1000		36.00

All Modern Loads on Hand.

RIFLE PARTS

Milled Springfield Trigger Guards	3.00
Milled Enfield Trigger Guards	1.50
Enfield Extractors, New	1.50
Springfield Triggers, New	1.00
Springfield Extractors, New	1.00
Enfield Ejectors, New	.75
Enfield Bolts, Stripped	4.50
Enfield Bolts, Complete	9.00

Available for Mauser 98, F.N. Springfield, Enfield, Krag, and .45 Colt Auto.
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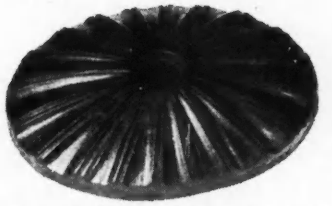
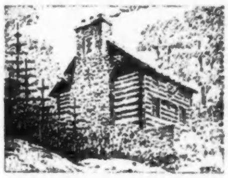
Unertl, Texan, Lyman, Echo, Redfield, King, Weaver, Buehler, G&H, Dockendorff, Marble, Pachmayr, Belding & Mull.



SUNBURST PISTOL GRIP CAPS, COMPLETE WITH BLUED SCREWS 60c EA. $4.80 DOZEN



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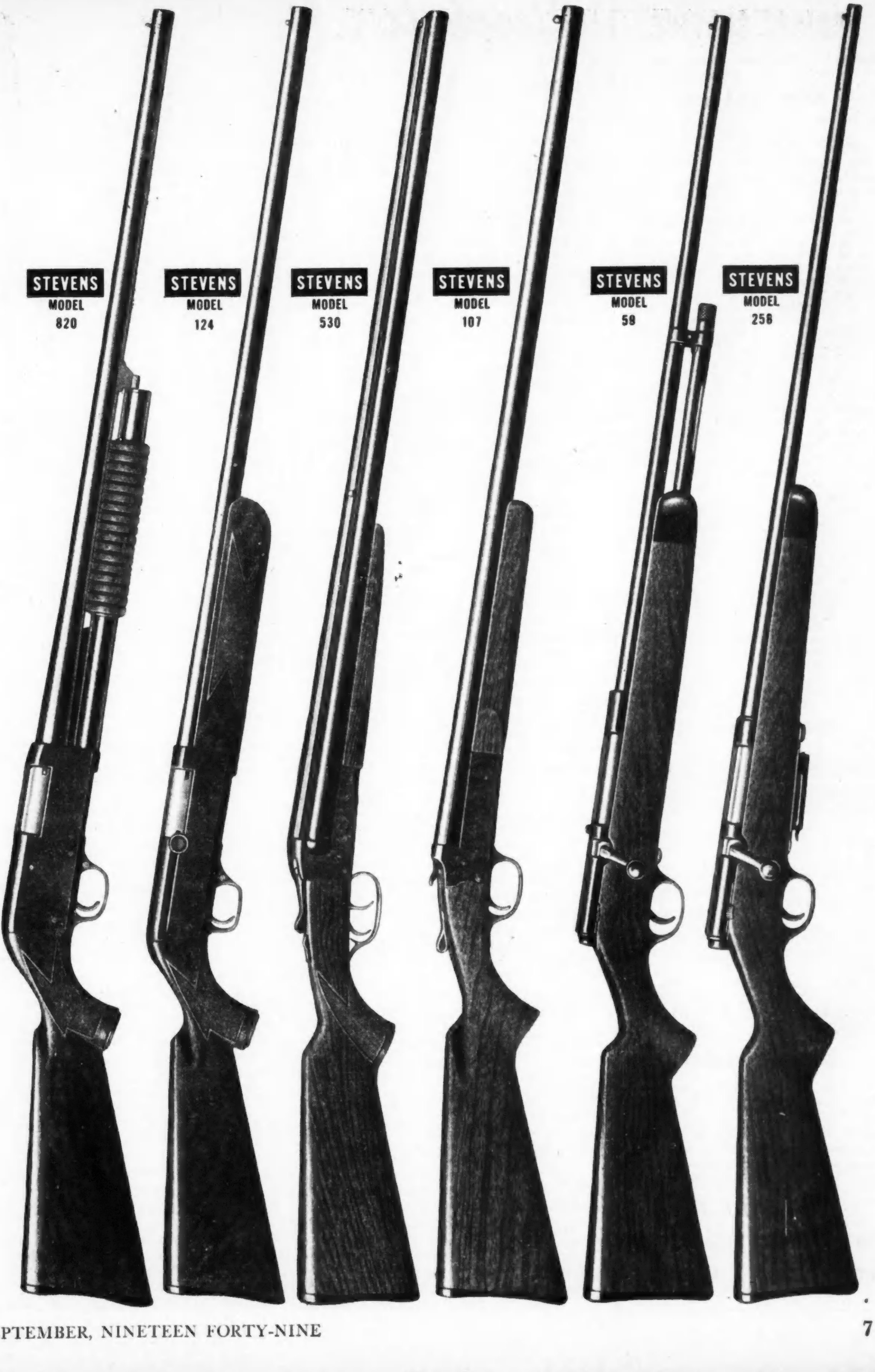
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LOOK'S LOOK

Denver, Colo.

Editor:

Hunting with a rifle in America is one of our oldest sports and is one participated in by hundreds of thousands of people. The sport has progressed to the point where it has definitely become a tool of management and an underwriter of big business. With these facts in mind, it behooves all of us to keep our heads and not express opinions or disseminate public information unless they can be coordinated with these two important phases. Game populations in many states have increased to the point where they are considered to be a definite threat to the existence of their winter range and food supply. Herd reductions are necessary in order to maintain a balanced deer population at all times. This is not only good range and game management but it is also in the direct interests of those using and selling arms and ammunition.

I list below, itemized by number, my comments on Mr. Look's article entitled "Hunted Hunter" in the June 1949 issue of THE AMERICAN RIFLEMAN:

1) Mr. Look starts out with the following phrase: "The seventeen hunters slaughtered . . . ". The facts of the case are that there were eleven hunters killed in hunting accidents during the entire season throughout the entire State of Colorado; only three were killed during the pre-season, and six died of heart attacks and other injuries.

2) Mr. Look's first paragraphs are misleading. They give the impression to the readers that our season was thirty-one days long. This is not the case. The pre-season in the Uncompahgre area was for thirteen days only. The regular season throughout the state varied from ten to sixteen days.

3) According to our kill records there were 66,676 deer killed throughout the entire state during the last season, of which only 11,768 were killed in the pre-season area.

4) Mr. Look states that there were "fifty hunters per square mile". According to the facts, there were two hunters per square mile throughout the entire state. There were approximately four hunters per square mile in the pre-season hunt.

5) Mr. Look states that there were "an unknown number (of game animals) left to the blow flies and coyotes." According to our records, which are as accurate as any kept anywhere in the country, our wounding loss of game last year was 9.3 percent during the pre-season and 13.7 percent for the entire season. This percentage is expressed in terms of the total killed. Many other states show a wounding loss as high as 25 percent or more.

6) Mr. Look states that 12,000 elk were killed, and our final figures were 10,628 for the entire state.

7) The article states "If last season's experience in Colorado is repeated, many think the whole future of game conservation and all hunting will be placed in jeopardy". Many perhaps think that, but that doesn't make it true. The facts of the case are that overpopulation and complete destruction of the winter range is the real threat to good game conservation and future hunting. Here is where the Game and Fish Commission must meet its responsibility and establish seasons and bag limits which will keep our game populations in balance with their year-round environment. Along these lines, in accordance with the management practices that have been established by the Colorado Game and Fish Department over a period of nine years, we will again have similar seasons and bag limits, even more extensive than were held last year, with the exception of the fact that no pre-season will be held. The taking of either sex in deer hunting will be permitted throughout the entire mountainous hunting area. Double bag limits will be permitted in about one-third of the entire Western Slope of the State of Colorado.

8) Mr. Look states that the Federal grazing lands have been taken off the tax rolls. According to Forest Service records, twenty-five percent of the National forest receipts are turned over to the counties in lieu of taxes, and that ten percent is expended for roads. It is also my understanding that the Forest lands in general have not been taken from the tax rolls because most of them were never on the tax rolls.

9) In his article, Mr. Look summarized his introductory paragraphs with the following statement: "In 1948 the Colorado Game and Fish Commission attempted to find . . . a happy norm . . . with the unhappy result of seventeen hunters dead and thirteen seriously wounded". A reader would obtain the idea that this was the only result of our management program last year. The facts of the case are that during the winter of 1948-49 we paid out approximately $125,000 to agricultural interests for the settlement of damage complaints as a result of deer and elk damaging agricultural crops. If we had not practiced intensive game management during the last four years, this figure would have been staggering. It would also seem to me that the very fact that 85,000 hunters could go into the field and bag 66,000 deer and 10,600 elk should be something to be proud of and should be included in the results of the efforts of the Colorado Game and Fish Commission. This, by the way, shows a success ratio of approximately 74 percent on deer and 44 percent on elk based upon license sales and actual kill records, which are probably the highest in the Nation.

10) Mr. Look said the Commission ignored the protests of several sportsmen's organizations. This is a definite misstatement. We meet annually, both from a regional and statewide level, with representatives of sportsmen's organizations, stockmen's associations and Federal land use agencies. The results of these meetings are incorporated in our management recommendations to the Game and Fish Commission for their action.

11) Mr. Look states: "The Commission failed to take in account the greediness of man." Most of us have been in this business for about twenty years and we very well realize the greediness of man. Such knowledge and experience are interwoven in all of our rules and regulations.

12) Mr. Look implied that the non-residents were novices. The facts of the case are there was only one non-resident who was definitely involved in a hunting accident. We find that most of our non-residents are

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experienced hunters; and if they are not experienced, a great percentage of them go to the trouble and expense of hiring a guide, and in general their hunting procedure is above the average of the resident. By the way, their kill record is twenty percent higher than that of the resident.

13) Throughout the article, in my opinion, Mr. Look generally discredits the hunter. He emphasized that they "tore down fences, broke into cabins, stole dishes, food, clothing and firewood. They killed cattle and horses, left gates open, etc". He also emphasized that the land owners said that they would rather feed the deer than be unwilling hosts to colorblind hunters. This willingness was not manifested when they turned in their damage complaints to the tune of approximately $125,000 during last winter.

14) Mr. Look, in my opinion, disparaged the intelligence of our nonresident visitors by intimating that they don't even know what matches are for. I will repeat that our findings are that the non-resident hunters are as equally capable and are as equally gentlemen as are residents. When 85,000 people at random are gathered together, it is recognized by every statistician that a certain percentage of them can be considered vandals. This is the case, resident or non-resident.

15) There are many more paragraphs in the article which, perhaps, make good reader interest and perhaps were motivated by a sincere desire to correct a situation, but the only thing I can say is they miss the point entirely as far as the overall picture of our Colorado hunters is concerned. Most of them are gentlemen, good sports and good hunters.

16) We have received a considerable number of letters from non-residents expressing their apprehension about conditions in Colorado, quoting Mr. Look's article in the June issue of THE AMERICAN RIFLEMAN. Their letters imply that they are deeply concerned over the situation as it is purported to exist, and a great many of them express a desire to come out here but they do not want to be thrown into jeopardy. As a result, I consider the article a distinct detriment to Colorado from an advertising standpoint and indirectly a limiting factor to good game conservation and management, especially wherein overpopulation has to be controlled to protect basic resources.

17) Mr. Look quoted a meeting where "it was suggested that before obtaining a license a hunter must prove he can tell a gun from a ramrod, and know how to handle same". Also, he stated "As a result of this meeting, the Colorado Game and Fish Commission will present a bill to their Legislature making the killing of a hunter in a careless and reckless manner punishable as manslaughter and establishing some sort of penalty for drunken hunting". The facts of the case are that for four years the Colorado Game and Fish Commission has attempted to obtain the passage of a law imposing penalties on reckless, wanton or careless hunting of any type, and authorizing the Game and Fish Commission with a power to revoke the license for such an offense. To date such legislation has not even been taken out of Committee. It seems to me that Mr. Look should have included this fact as a part of his article.

18) In the same issue, you, Mr. Lister, presented an editorial entitled "Hysteria Ahead". You cite: "It is time to call a halt to panic. The situation cannot be corrected by spur-of-the-moment legislation, by buck passing,

"GEESE OVER THE MARSHES"

by Hans Kleiber

The morning mists rise. The marshes are tinted in russet, silver and rose. Then, from out of the North they come, in tight wedges. The air is filled with the beat of wings. The hunter stands . . . his moment has come!

But such moments are getting rare. In many places stocks of game are dropping steadily. Sportsmen must act together now to save game for the future. Help preserve our wildlife. Limit your bag, and join and support local and national organizations for game restoration and conservation. E. I. du Pont de Nemours & Co. (Inc.), Explosives Department, Wilmington 98, Delaware.

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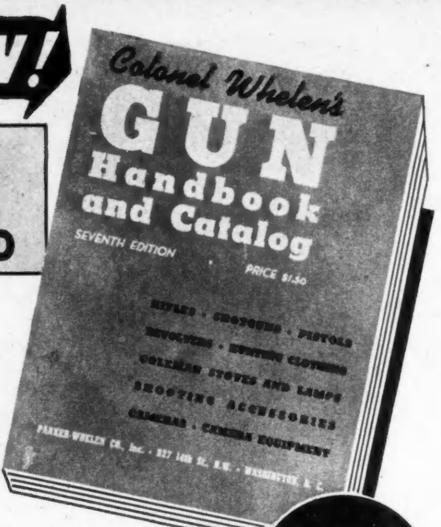
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Fecker Target Scope, 1⅝ inch objective, 10, 16 20 & 24 power	98.50
Fecker "Woodchucker" Scope, 1.2 inch objective 4.5, 5.5 & 7 power	62.50
Bausch & Lomb Prismatic Spotting Scope 60 mm Objective, 20X	95.00
Argus Super Spotting Scopes 20x	74.50
Freeland All-Angle Stand	11.50
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Bausch & Lomb Zephyr Light Hard Coated Lens	
6 x 30	186.00
7 x 35	186.00
8 x 30	204.00
9 x 35	204.00
7 x 50 (not Zephyr Light)	210.00
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Ray Ban Shooting Glasses	13.75

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or by solutions based upon outmoded traditions. The fault lies at the door of no one group. It can be corrected only by friendly, frank discussion between many groups".

I am inclined to give a little nod to your editorial, but, on the other hand, I am firmly of the opinion that articles such as Mr. Look's will generate hysteria. To me there is a definite conflict between the editorial policy and the article that was presented therewith.

C. N. Feast, Director
Game and Fish Commission

PUBLICITY

Chicago, Illinois

Editor:

Your current editorial in the "Incidentally . . . " column on publicity for the shooting game is a "pinwheel". It should be read carefully by all who prepare club news.

Even the inexperienced publicity man can get practical help and suggestions from the local editor, if he will only maintain a cheerful, friendly, non-critical attitude at all times no matter how often stories hit the editor's wastebasket. Newspapermen will usually go out of their way to cooperate with those who impress them—*in a sincere, courteous way*—that they are trying earnestly to give the paper legitimate news—on time.

Sherwin Murphy

TOUGH CRITTERS

Freeport, Illinois

Editor:

If the Rifleman has to resort to such stories as was written by Elmer Keith and published in the August issue, I would suggest they dispense with stories entirely.

Personally, I think this fantastic tale of being thrown down the mountainside and coming up with a six-shooter in hand sounds like a childish imagination gone rampant.

H. Reid Horner

Indio, California

Editor:

"Tough Critters" is enough to quicken the pulse of the most experienced hunter. There are many American Rifleman fans who are not experienced hunters. In the hope that these inexperienced hunters may gain secondhand knowledge of the dangers and difficulties of various types of hunting, I suggest that more space be given such articles.

Safety in the handling of animals being hunted seems to me just as important as in the handling of the firearm itself.

W. R. Kollenborn

BULLET'S FLIGHT

Seattle, Wash.

Editor:

In Part II of "The Bullet's Flight" the caption under Figure 5 states the drop as 'inches' . . . this should be 'feet' instead to agree with column 8, Table I.

Peyton Autry

QUICKSILVER AND GOLD

Modesto, Calif.

Editor:

I just finished reading your article, "Walnut and Silver" in the August issue.

You sure are going to run a lot of the fellows into trouble with their gold rings, though, as the article has a fellow with a ring on his left hand, looks like a wedding ring. Gold rings are never worn around quicksilver as they will be ruined if contacted with quicksilver and left on. Being a jeweler, I noted this at once.

Walter P. Shoemaker

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The same rifles, equipped with Buehler mounts and Stith Bear Cub scopes, at $265.

The same rifles in Weatherby 220 Rocket, 257, 270, 7mm., 300 and 375 Weatherby Magnum calibers, $20 extra. These are the world's most powerful rifles.

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$1.00 postpaid

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"Builders of America's Finest Rifles"

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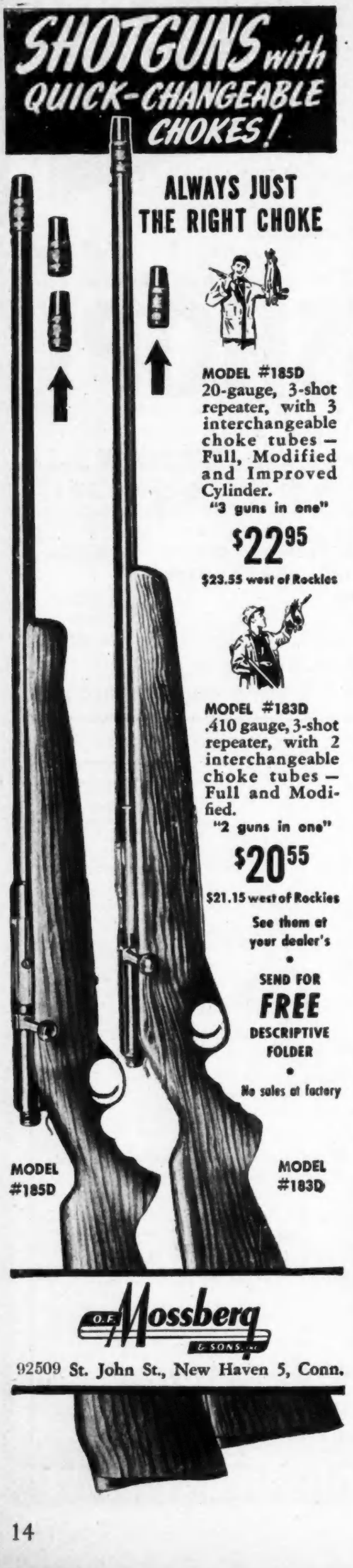
Rifle orders filled in order of receipt. Check, money order, or C.O.D. accepted.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"3 guns in one"

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SEND FOR FREE DESCRIPTIVE FOLDER

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MODEL #183D

O. F. Mossberg & Sons, Inc.

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Incidentally . . .

Every so often a magazine editor lines up what he feels will be an outstanding issue of his brain child . . . a magazine so studded with great names and deathless prose that it cannot fail to go into the annals of publishing as a memorial to the genius of Ye Ed. This momentarily happy circumstance probably occurs as often on one magazine as another. From personal experience —the *really* personal kind—we can vouch for the RIFLEMAN's participation in this particular sort of rat race. Rat race because, unfortunately, those rosy dreams of a Pulitzer prize for accomplishment in the field of periodical journalism never come true.

As you probably have guessed, the villain of the piece is a gentleman known as the Advertising Manager. In our case the name on the masthead is Moulton . . . Frederic A. Around RIFLEMAN offices he's variously thought of (depending upon one's viewpoint, distance, and professional contacts) as a Machiavellian character who is determined to turn the RIFLEMAN into a simon-pure buyer's guide . . . as a heartless businessman who insists on selling space we'd otherwise fill with more interesting matters . . . or (more correctly, we'd say) as one of the several people whose efforts account for whatever of value you find in the RIFLEMAN. The problem, of course, is that once in a while, advertising manager Moulton hands us an unprecedented and unexpected amount of advertising and we have to adjust the magazine accordingly. This issue happens to be one of them.

☆ ☆ ☆

Thinking of the advertising pages of the RIFLEMAN as a desirable chunk of reading matter may seem odd. Most of us look on other people's advertising as something we get whether we want it or not, like singing commercials. The advertising pages of the RIFLEMAN, however, (unlike those of a lot of other publications) are a good deal more than that. Actually they provide an amazingly complete, up-to-the-minute market guide covering shooters' interests from the newest of rifles to handmade .0015-inch dots for your scope sight . . . along with such items as lathes, slingshots and professional advice for inventors (with whom the gun field teems, if you hadn't guessed). The ads in the RIFLEMAN are really of news interest if you're a shooter, and provide a monthly market survey of the latest things in tested, approved shooters' needs, period. No ads for Grunion's Glorious Bourbon or left-handed sclemotis wrenches. It's a shooters' market place. As much as we hate to admit it, some of our readers tell us they look at the ads first . . . even before they turn to the letters column!

Here are a few items of incidental intelligence: Contrary to general impression, we couldn't send the magazine free if we sold more advertising. Neither could anyone else. As a matter of fact, the Rifleman classified columns don't even pay their own printing bill. We think of the classified ads, though, as one of the important services the NRA can offer the shooter, so in they stay. Secondly, even though advertising is heavy once in a while, the fact remains that during the last twelve months, RIFLEMAN readers received almost 600 pages of editorial copy, *plus a whole lot of pertinent advertising*, which adds up to one of the best reading-matter bargains we've heard of.

☆ ☆ ☆

However much we may protest from the editorial point of view, it looks very much as if advertising is with us for the duration. But we'll still roar with outraged dignity at the knuckleheaded few among RIFLEMAN readers (including Moulton) who insist that they find the ads the most interesting part of the RIFLEMAN. (Of course, we read 'em too, but at least we have the excuse of being somewhat familiar with the editorial sections. That's one of the penalties of editing your own favorite magazine. By the time the mailman drops it into your box, you've nothing to look forward to but the ads!) —J. S.

THE AMERICAN RIFLEMAN

COVER

Wrote photographer Bob Holland (now living in Quechee, Vermont) about this month's cover: "Here is another for you. This was made in the high Sierras just before I left there in the late fall. Ed Kandt is the man with the rifle. He's seldom seen without one, unless he's carrying a shotgun or a fly rod. Hope you like it." We did, and pass it on to herald the approach of another hunting season. Cameraman Holland, incidentally, was responsible for the eye-catching October 1948 cover, with its fine old Kentucky rifle backed up by the shadow of a rifle-carrying, buckskin-clad pioneer.

PUBLISHED MONTHLY BY THE NATIONAL RIFLE ASSOCIATION, 1600 RHODE ISLAND AVENUE WASHINGTON 6, D. C. DOMESTIC RATES (NORTH, SOUTH, AND CENTRAL AMERICA) $4.00 A YEAR, $7.00 FOR TWO YEARS, $10.00 FOR THREE YEARS; ELSEWHERE ADD $.60 PER YEAR FOR FOREIGN POSTAGE. ENTERED AS SECOND-CLASS MATTER, APRIL 1, 1908, AT THE POST OFFICE AT WASHINGTON, D. C., UNDER ACT OF MARCH 3, 1879. COPYRIGHT, 1949 NATIONAL RIFLE ASSOCIATION OF AMERICA. ALL RIGHTS RESERVED. FOR CHANGE OF ADDRESS, GIVE BOTH NEW AND OLD ADDRESS AS THE LATTER APPEARS ON ADDRESS LABEL.

The
AMERICAN RIFLEMAN

Official Journal of the National Rifle Association of America

1600 RHODE ISLAND AVENUE, N.W., WASHINGTON 6, D. C.

VOLUME 97 NUMBER 9

SEPTEMBER 1949

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C. B. LISTER, *Editor*
JOHN SCOFIELD, *Managing Editor*
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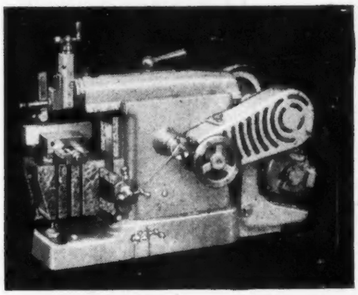
You get more for your money in South Bend machine tools. They are built to give you extreme accuracy, long service and greater utility. You'll do better gunsmithing with them every time.



7" SHAPERS Advanced gunsmithing offers many uses for this precision shaper. It has ample capacity for every type of gun work. Ruggedly constructed. Has built-in drive. Swivel vise included.
7" Bench Shaper $425
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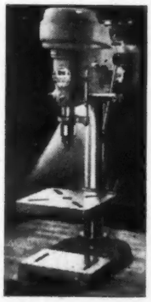

14" DRILL PRESSES
A precision-built tool designed for exacting work. Features free-floating spindle, 4 precision bearings, quill bearing adjustment, belt tension release, etc.
Bench Model . $129.30
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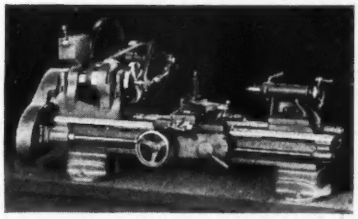

LATHES A size for every shop—made with 9", 10", 13", 14½" and 16" swings in Quick Change Gear and Toolroom models. Numerous attachments available for special classes of work. Prices of 9" Lathes, with motors, start at **$187.35**

Write *for information. Free catalog on request, specify tools interested in. Time Payments—25% down, balance in 12 monthly payments. (All prices are f.o.b. factory.)*

SOUTH BEND LATHE WORKS
Building Better Tools Since 1906
452 E. MADISON ST., SOUTH BEND 22, IND.

South Bend MACHINE TOOLS

Editorial

What's wrong with work?

It was probably because we were thinking about the national championships and the fact that Labor Day would be just another work day for us, even though it was a holiday for most everyone else. Maybe we were thinking that even the milkmen, bus drivers and railroaders who worked on Labor Day would get a day off later in the week—but not us. "Thank God, nobody tries to stage a registered shoot on Christmas!" we might have said to ourselves. Then we began to wonder. "What's the matter with us and most other Americans? What's *wrong* with work? If we enjoy our work, what's the difference whether we work on one day or another or every day? If we don't like our work why don't we have the guts to get into something we can enjoy?"

We remembered dimly those days when the proudest thing a man's fellows could say of him was, "He's a good workman". It was the hallmark of the good citizen, regardless of profession or trade. It meant a man who was solid, who had coupled whatever brains God had given him with whatever manual skill he had inherited and had taken the time and the trouble to learn to do a good job. Pride in being a 'good workman' was the driving force that turned the financially impoverished, wilderness-covered land of America into the world's most powerful nation and gave its citizens a standard of living beyond the reach of those who enjoy wishing but have not learned that there is joy in working.

Then we got to thinking, "After all, it's the desire to wish instead of to work that provides the fertility for the soil out of which grows Socialism—whether it be labeled that or Communism or Nazism or Fascism —for they are all brothers under the skin. They all sing the siren's song of 'Security' and seek to drown out the notes of the American melody 'Opportunity'."

Has our educational system gone off the deep end in its effort to give every American a college education by preaching the doctrine that 'book learning' and 'smartness' provide greater security than hard work and native intelligence? Some people can absorb classroom instruction. Some people can learn more about how to live successfully in the school of hard knocks. Many a Communist and fellow traveler got that way because he was frustrated by the discovery that a college education did not automatically make the world his oyster. From grade school to post-graduate work, none of his instruction stressed the fact that education was merely the handmaiden of, not a substitute for, hard work.

Is it too disturbing a thought that the answer to many of our ills, real and imagined, might be once again to glorify hard work? Might it be wise again to pay honor to the *good workman* instead of paying homage to that indefinable mass of good, bad and indifferent humanity lumped together by smart Communist propagandists as 'workers'?

Do we dare suggest that we might make a start in our own field of activity by taking pride in our good workmanship as hunters and target shooters instead of spending our time and energy trying to find the secure, certain way of bagging our game and winning our prizes with a minimum of hard work? Could it be that such a return to our father's pride in hard work and good workmanship would eliminate a lot of our troubles with illegal game killing; accidental shootings in the hunting field; eternal arguments about the 'fairness' of classification and handicap systems? Has our pride in competitive sportsmanship been diluted along with our pride in good workmanship?

Frankly, we don't know, but it's something we got to wondering about on account of we have to work on Labor Day!

CB Lister

THE GUNMAKERS OF DENVER

BY JAMES E. SERVEN

Denver . . . site of the NRA's 1949 Convention . . . can look back over almost a century as arms center of the Old West. The men who built that reputation were Carlos Gove, John Lower, George Schoyen, and Axel Peterson

A TALL, MUSCULAR Yankee sat astride a tired horse and surveyed the pleasant terrain of Lake Gulch, near Denver, Colorado. Behind him and his train of six wagons drawn by eighteen yoke of oxen, lay thirty-seven days of hard travel from Nebraska via Fort Kearney. It was June of 1860, and the Yankee was Carlos Gove.

Already famed as gunmaker, U. S. Dragoon soldier and Indian fighter, Gove had been tempted to become a food-supply merchant. He had sold his property in Iowa and hauled a stock of goods to Colorado. A log store was erected at Lake Gulch. Business was good. The next spring, Gove headed his oxen east for supplies. For the return trip to Colorado he changed to mules, driving sixteen span with five wagons.

Carlos Gove was primarily a man of creative action. The food-supply business soon lost its allure. In the autumn of 1862, Gove turned again to gunmaking and opened a shop on the corner of Sixteenth and Larimer Streets in Denver. This is a neighborhood renowned for its gunshops. It is quite possible that more guns have been sold along Larimer Street than on any other street in the world.

Gunsmith Gove had first seen the light in 1817 in Wentworth, New Hampshire. His interest in firearms came naturally—and early. The Gove men knew how to use firearms. Carlos' grandfather, Ebenezer Gove, served in the American ranks during the Revolution and carried into battle a gun with a left-handed lock, made especially for his use. Young Carlos went to Boston at the age of sixteen and took employment first in a brickyard, then as apprentice to a gunsmith. He was to remain close to firearms for the rest of his life.

In 1837, when the first United States Dragoon regiment was the only organization of its kind in the country, Gove enlisted for three years. He took part in the Seminole War, and was mustered out in 1840 at Fort Leavenworth. Soon after leav-

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To Miss Nelle Minnick of the Denver Public Library I am indebted for much factual data, and to Tom East, Jr., of Trinidad, Colorado, I express especial gratitude for the quantity of old letters, newspaper clippings, etc., he placed at my disposal.

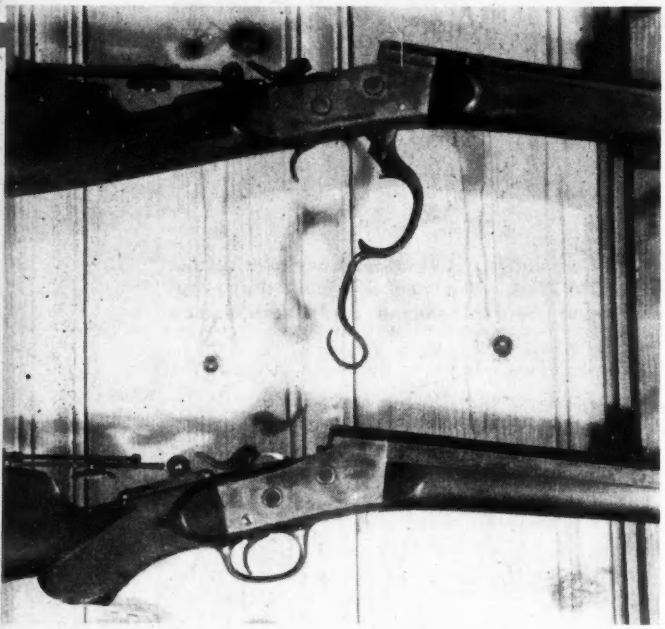
CARLOS GOVE

JOHN P. LOWER

GEORGE SCHOYEN

ing the U. S. Dragoons, Gove was engaged as gunsmith in the Indian Department. He was stationed at the Pottawattamie Agency, on the present site of Council Bluffs, for four years.

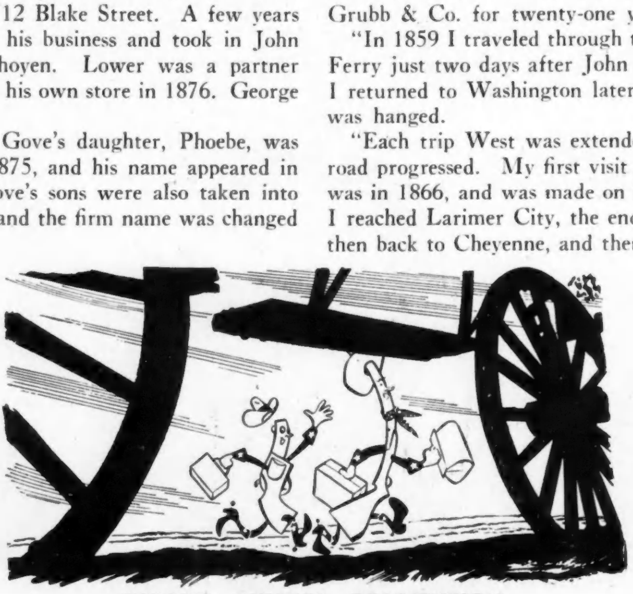
From this employment, Gove went to St. Joseph, Missouri, which then sheltered fewer than one hundred inhabitants. Here he launched a gun business of his own. Gove lived in St. Joseph until 1854, when he returned to Council Bluffs. The tall Yankee prospered in Council Bluffs, finally acquiring a 500-acre farm near Glenwood. The urge to "go west" was strong, however, and as a result Carlos Gove a few years later became one of Denver's first and most highly respected gunmakers.



Above, a Carlos Gove alteration of the Remington single-shot, and below, a standard Remington for comparison. Top gun was prize in 1876 match

The *Rocky Mountain Directory and Colorado Gazetteer* for 1871 lists Carlos Gove at 12 Blake Street. A few years later, in 1873, Gove enlarged his business and took in John P. Lower and George C. Schoyen. Lower was a partner for three years, until he opened his own store in 1876. George Schoyen was an employee.

Frank Church, husband of Gove's daughter, Phoebe, was taken into the Gove firm in 1875, and his name appeared in the directories until 1883. Gove's sons were also taken into the business at about this time and the firm name was changed to C. Gove & Sons.



SECOND ANNUAL CONVENTION
Denver October 17-21

Not only as a gunmaker, but also as an expert marksman, the fame of Carlos Gove spread. For many years he was recognized as the best shot in Denver—in fact, he was considered the champion of the entire territory. His honors included Fay and Creedmoor medals, among many. Always ready for a wager, this transplanted Yankee sometimes won as much as $1000 on a single match. He was an expert

with both the older muzzle-loading arms and the newer breech loaders.

The Gove shop sold many kinds of guns and accessories but most in demand were the guns with Gove custom barrel or other special Gove features. Illustrated is a typical Gov alteration of the rolling-block Remington-Rider rifle; thi particular gun, with distinctive Gove lever-operated mecha nism, was won in 1876 at a Denver shoot.

In Denver's early days, gunsmithing was one of its mos important trades, and it is not surprising that Carlos Gov became a prominent civic leader, serving in such capaciti as president of the fire and police board and president of th City Council.

The people of Denver mourned a great pioneer when, i 1900, death took eighty-three-year-old Carlos Gove from them

No discussion of the Denver gun trade would be complet without a chapter devoted to John Prey Lower. He wa perhaps more a successful arms merchant than an outstandin craftsman. The name of Lower was to the early pioneer wha the name of Tiffany is to jewelry or Edison to a disciple o electricity. Lower performed a needed service when he suc ceeded in supplying the West with rifles and revolvers whic were better than the West had been using.

Some of the most colorful characters in western histor found their way to John Lower's shop. You might find ther prominent men of the business world, such as his persona friends, Col. Samuel Colt or Col. Christian Sharps, or yo might find a store filled with Indians or mountain men.

During Lower's forty-four years in Denver he move about to several business locations. His shop was to be foun at different times on Blake, Larimer, Fifteenth, and Champ Streets. The Blake Street store was probably the best know

John Lower's own account, following, gives us a vivi insight into his colorful life.

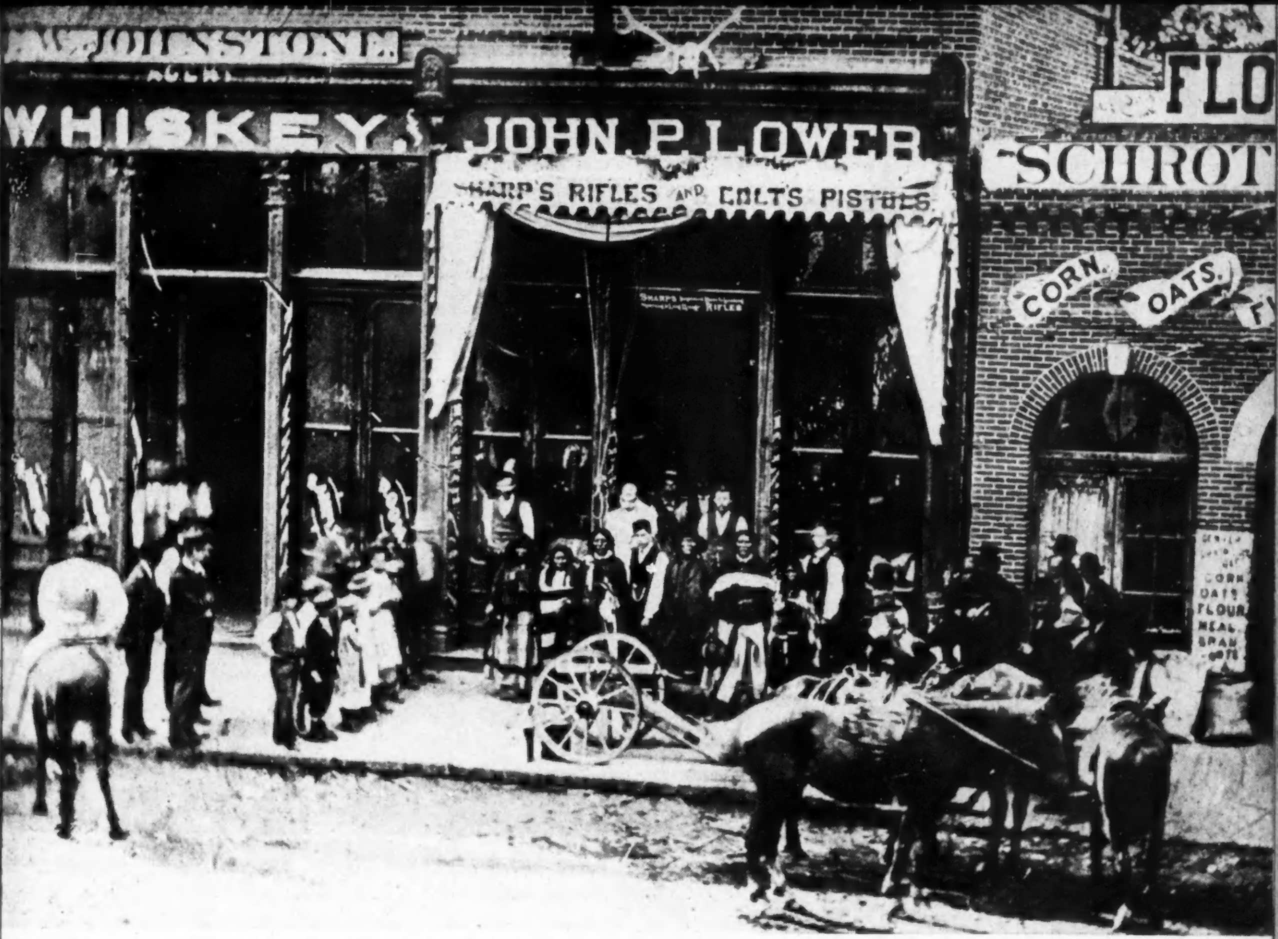
"I was born in Philadelphia, on January 23, 1833, whe Andy Jackson was President. At the age of 18, after tryin various uninteresting jobs, I went to work for Joseph C Grubb of Philadelphia. In the Grubb arms and ammunitio store I rapidly became an expert gunsmith, and worked a that trade until 1858, when Mr. Grubb started me out o the road as a firearms salesman. I worked for Joseph C Grubb & Co. for twenty-one years.

"In 1859 I traveled through the South and was at Harper Ferry just two days after John Brown made his famous raid I returned to Washington later, and was there when Brow was hanged.

"Each trip West was extended as the Union Pacific Rail road progressed. My first visit to Omaha and Council Bluffs was in 1866, and was made on the Missouri River. In 186 I reached Larimer City, the end of the railroad at that time then back to Cheyenne, and then by stage to Denver. It wa on this trip that I met Carlo Gove, whom I afterward joined in the gun busines

"Among the warm per sonal friends of my earli days were Col. Samuel Co of pistol fame, and Co Christian Sharps, inventor the, rifle bearing his nam Many the time I have bee on the target range wit them, testing out some arn They were fine men.

"My store was a gener headquarters for sportsme


JOHNSTONE
AGENT
WHISKEY
JOHN P. LOWER
SHARP'S RIFLES AND COLT'S PISTOLS
SHARPS RIFLES
FLO
SCHROT
CORN
OATS
CORN
OATS
FLOUR
MEAL
BRAN

The old John P. Lower store on Blake Street, Denver as it looked in 1876. Indians were then a common sight on the unpaved streets of the Colorado town

I have furnished arms and ammunition to many of the well-known scouts: Oliver Wiggins, Captain Christy, Bill Cody, Jim Bridger, Jim Baker and others. And to some of the bad men, too!'

"When Grand Duke Alexis of Russia came out to hunt buffalo he outfitted here. I have become friendly with many prominent businessmen and titled gentlemen from abroad, who come here to hunt. When a tenderfoot comes along and inquires about an outfit, they inevitably tell him: 'Get it at Lower's'.

"The early pioneer, prospector and cattleman were my friends. Last and not least, I had the respect of every Indian

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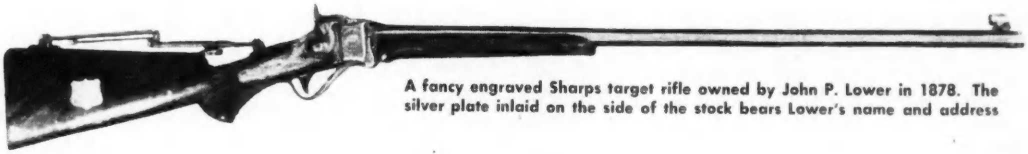
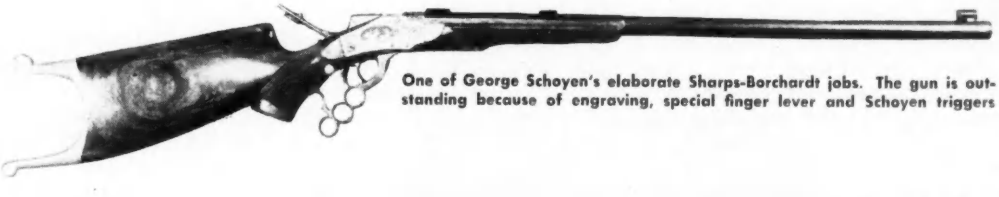
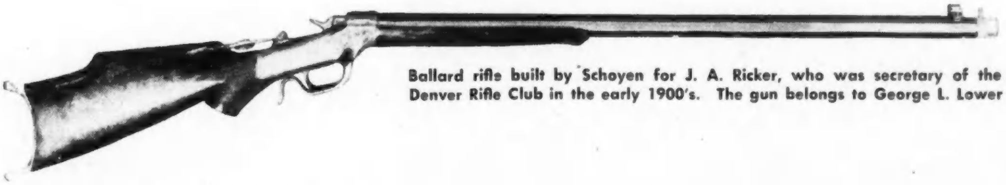


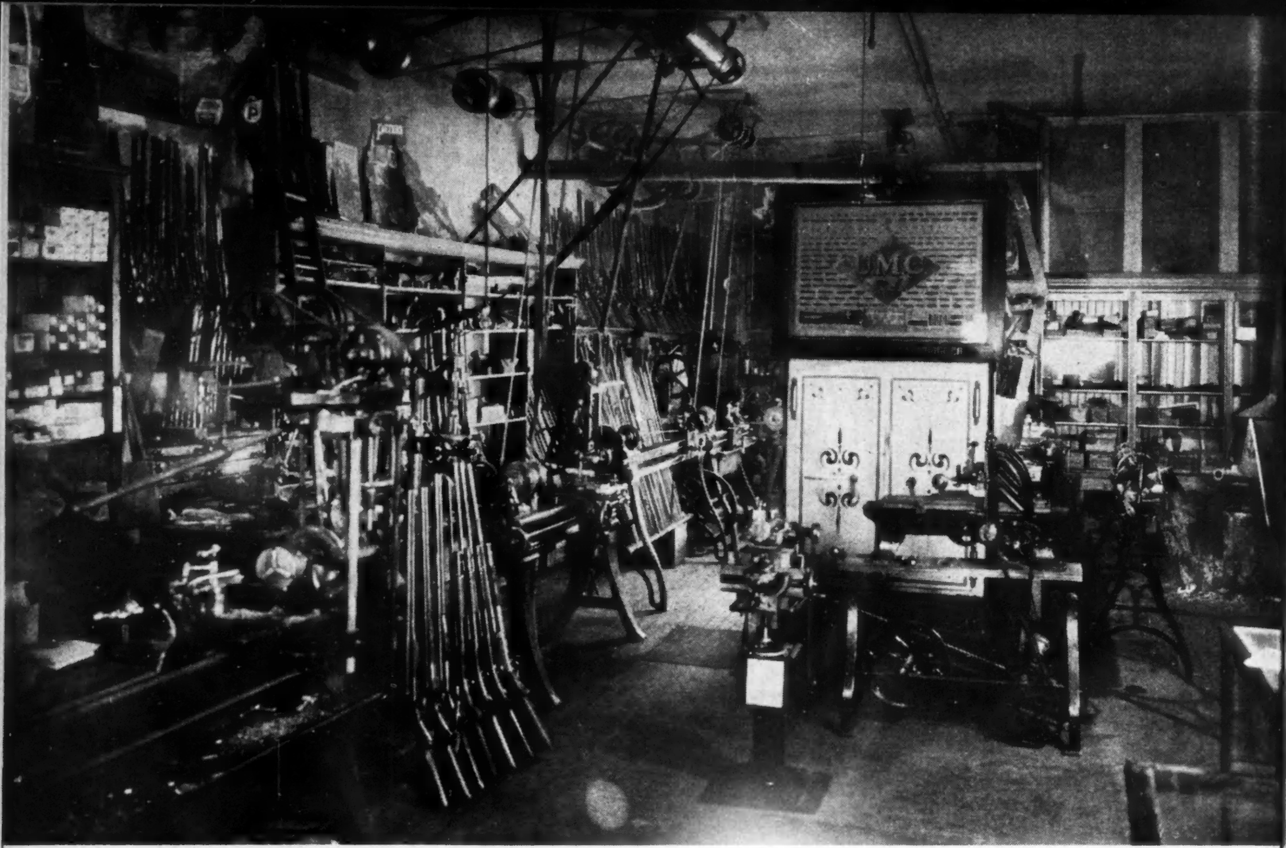
A fancy engraved Sharps target rifle owned by John P. Lower in 1878. The silver plate inlaid on the side of the stock bears Lower's name and address



One of George Schoyen's elaborate Sharps-Borchardt jobs. The gun is outstanding because of engraving, special finger lever and Schoyen triggers



Ballard rifle built by Schoyen for J. A. Ricker, who was secretary of the Denver Rifle Club in the early 1900's. The gun belongs to George L. Lower



The 'back room' of Axel Peterson's old gun shop at 1429 Larimer Street. It was there that the great riflemaker turned out many of his finest barrels

for miles around. Chiefs Ouray, Colorow and Persoon of the Utes always made my store at Blake Street their headquarters.

"Many a time I have taken in a dozen Indians and more—allowed them to sleep in my store, where there was thousands of dollars worth of valuable merchandise. Yes, many a night I have locked the door, leaving them to the warmth of the stove, taking the key with me. Not once did they ever betray this trust. I never missed even a cartridge!

"I reckon that I am the oldest living gunsmith in continuous business. Sixty-five years in this trade is some record!"

These were the words of John Lower, a man who furnished the western gun buyer with everything from a Sharps to a six-shooter, and to whom Rocky Mountain men confidently brought their guns when they needed repair.

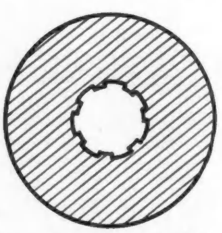
You have doubtless seen the "J. P. Lower—Denver" stamp on Sharps and other rifle barrels and on some pistols, too. This stamp, it is understood, signifies only sale of the article by Lower, and gives no indication of having been produced in his shop.

By the turn of the century, match shooting had become increasingly popular in the Denver area. The Colorado Rifle Association, the Denver Rifle Club, the Denver Post trophy and other factors now drew many men to the target range.

We find J. P. Lower's name among the entrants of various matches reported in the sporting magazines and newspapers of that period. An old letter written by C. W. Rowland of Boulder, Colorado, in 1906 states, "I have just returned from J. P. Lower's store where the distribution of prizes for the shoot took place."

John Lower lived to enjoy eighty-four years of life, more than half of it spent in his beloved Denver. The West said farewell to a good friend when "J. P." shut his old desk for the last time—closed that same historic desk which had been used by Governor McCook, chief executive of Colorado territory in its infancy, a desk that had felt the touch of important documents, fine firearms, and many other valuable objects, all associated with the active march of our national progress.

Men who know fine workmanship will tell you that George C. Schoyen was one of the most skilled craftsmen who ever touched a gun barrel. There are those who favor the work of Harry Pope and those who favor George Schoyen. No clear superiority of the work of either man has ever been conclusively proved. Using a Schoyen barrel, D. W. King, Jr. made his 100-shot world record on January 17, 1904, at the grounds of the Denver Rifle Club. Soon afterward Harry Pope equalled the record, using one of his own barrels.



George Schoyen's .32-40 barrels were of the wide groove and narrow land type. Here are the dimensions he used:

Bore diameter, inch	**.315**
Groove depth, inch	**.005**
Land width, inch	**.05**
Groove width, inch	**.115**

Seven grooves, one turn of rifling in 16¼ inches

In The American Rifleman and elsewhere we have read about the famous C. W. Rowland, mentioned above, who developed such remarkable accuracy. Here are Mr. Rowland's personal opinions, written on April 3, 1905:

"Regarding the comparative accuracy of the Schoyen vs. Pope barrels, would say that in my judgment and experience in offhand shooting there is but little, if any, choice. Both systems will shoot closer than the ten ring and any inaccuracy inside of this will, in offhand shooting, shoot one *in* as often as *out*."

George Schoyen was a native of Norway. He came to the United States as a young man, soon after the Civil War. His first employment was in Chicago, but Schoyen migrated west after the big Chicago fire, making his home in Denver and finding employment there with Carlos Gove.

Mrs. Coleman Bell, one of Schoyen's five daughters, recalls that when her father first went to Denver, Indians were tenants of the same building in which he lived. George Schoyen really earned his membership in the "Sons of Colorado".

From 1873 to 1885 Schoyen worked diligently in the Gove shop. Then Gove retired from business, and Schoyen set up his own shop in partnership with a man named D. W. Butt.

The Schoyen-Butt partnership was of short duration, and in 1887 Schoyen took as a partner F. A. Burgen. Schoyen and Burgen prospered for about ten years.

Then, from 1897 to 1904, Schoyen had no partner. In 1904 Axel W. Peterson became associated with him and their shop was located at 1417 Lawrence Street. Thus began the fortunate and successful association of two great gunmakers, respected craftsmen whose names have echoed and re-echoed in the farthest corners of the shooting world.

Although best known for their fine target barrels, Schoyen and Peterson were skilled in all forms of gunsmithing. They designed a very unusual over-and-under gun, rebuilt fancy target pistols, and made up expensive hunting rifles. The Peterson telescope sight was one of the first to offer internal adjustments.

Target shooters and hunters from all over the world sent in their orders to these two slow-moving, quiet-spoken gunsmiths. When the Earl of Dunraven lived at Estes Park, he would use no guns except those bearing the George C. Schoyen barrel stamp. Lord Lennox and Col. Vivian were other prominent sportsmen whose preferences were the same.

Men of the target-shooting fraternity were inevitably drawn to the Schoyen and Peterson shop. In fact, the annual meeting of the Colorado Rifle Association was frequently held there.

In December of 1905, nationally famous Dr. W. G. Hudson made his first appearance on the range of the Denver Rifle Club, of which he had just become a member. The doctor was considered at that time the champion rifle shot of the world. Dr. Hudson had moved to Denver to improve his health. He had also selected a spot where the competition was really tough! When shooting against men like D. W. King, Jr., W. S. Green, Tom D. East, C. W. Rowland, A. W. Peterson, S. A. Shafer, and other prominent western marksmen, one had to hold pretty close to a world record to be sure of a win.

Like J. P. Lower, Schoyen changed locations in Denver. The directories give varied addresses on Blake, Fifteenth, Arapahoe, and Lawrence Streets. Later Peterson moved up on Larimer Street.

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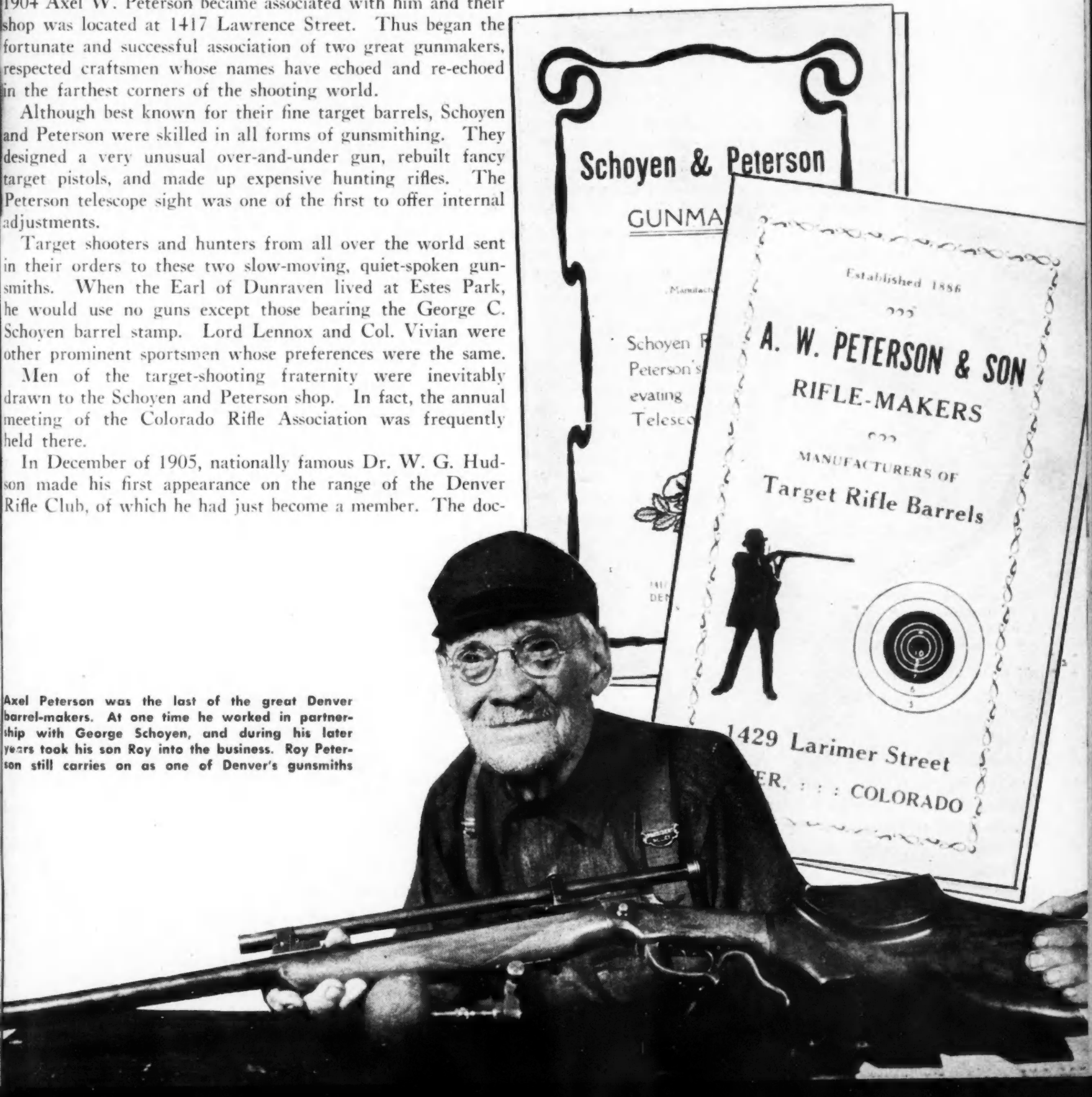

Schoyen & Peterson

GUNMA

Manufact

Schoyen R

Peterson's

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Telesco

141

DEN

Established 1886

A. W. PETERSON & SON

RIFLE-MAKERS

MANUFACTURERS OF

Target Rifle Barrels

1429 Larimer Street

ER, : : : COLORADO

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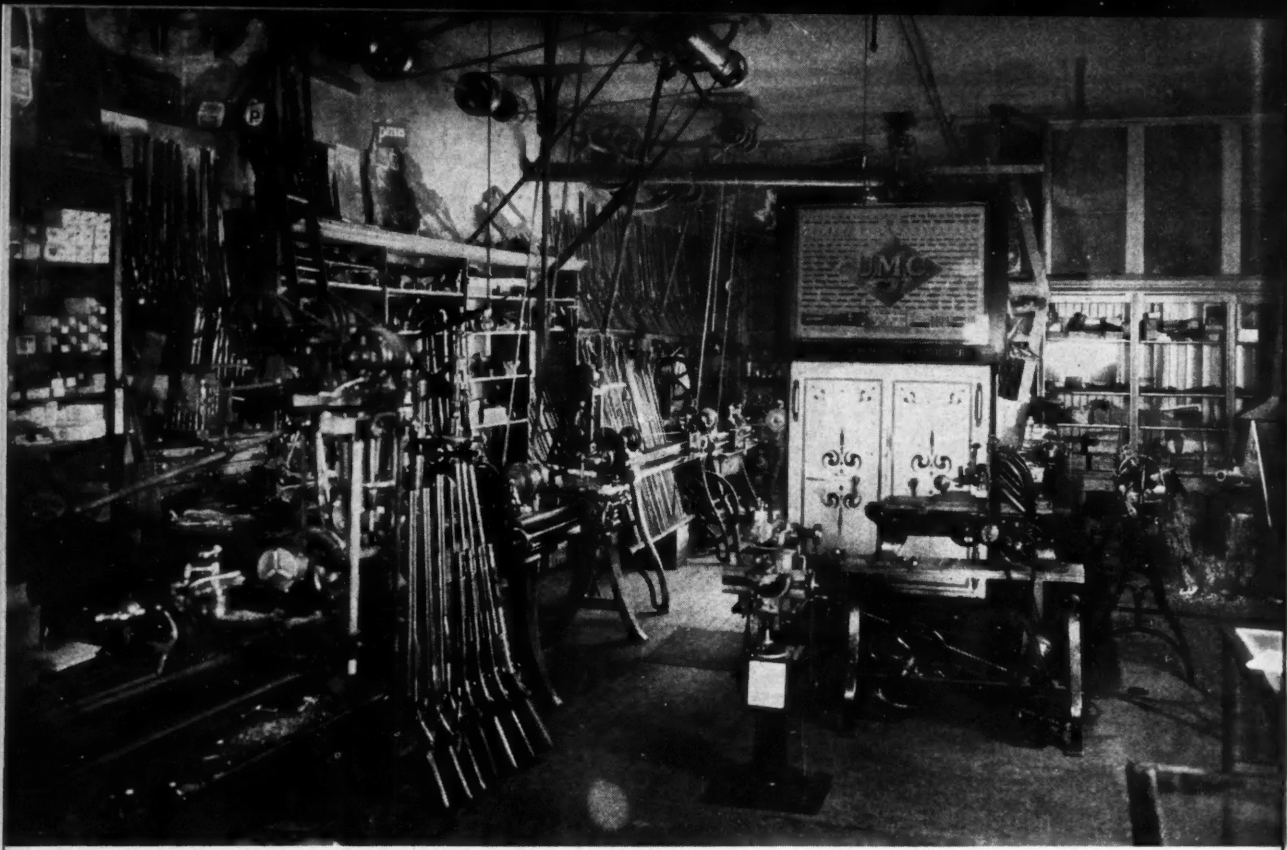


The 'back room' of Axel Peterson's old gun shop at 1429 Larimer Street. It was there that the great riflemaker turned out many of his finest barre

for miles around. Chiefs Ouray, Colorow and Persoon of the Utes always made my store at Blake Street their headquarters.

"Many a time I have taken in a dozen Indians and more—allowed them to sleep in my store, where there was thousands of dollars worth of valuable merchandise. Yes, many a night I have locked the door, leaving them to the warmth of the stove, taking the key with me. Not once did they ever betray this trust. I never missed even a cartridge!

"I reckon that I am the oldest living gunsmith in continuous business. Sixty-five years in this trade is some record!"

These were the words of John Lower, a man who furnished the western gun buyer with everything from a Sharps to a six-shooter, and to whom Rocky Mountain men confidently brought their guns when they needed repair.

You have doubtless seen the "J. P. Lower—Denver" stamp on Sharps and other rifle barrels and on some pistols, too. This stamp, it is understood, signifies only sale of the article by Lower, and gives no indication of having been produced in his shop.

By the turn of the century, match shooting had become increasingly popular in the Denver area. The Colorado Rifle Association, the Denver Rifle Club, the Denver Post trophy and other factors now drew many men to the target range.

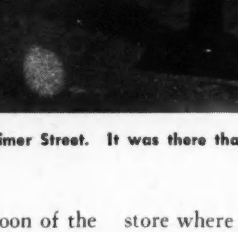
We find J. P. Lower's name among the entrants of various matches reported in the sporting magazines and newspapers of that period. An old letter written by C. W. Rowland of Boulder, Colorado, in 1906 states, "I have just returned from J. P. Lower's store where the distribution of prizes for the shoot took place."

John Lower lived to enjoy eighty-four years of life, more than half of it spent in his beloved Denver. The West said farewell to a good friend when "J. P." shut his old desk for the last time—closed that same historic desk which had been used by Governor McCook, chief executive of Colorado territory in its infancy, a desk that had felt the touch of important documents, fine firearms, and many other valuable objects, all associated with the active march of our national progress.

Men who know fine workmanship will tell you that George C. Schoyen was one of the most skilled craftsmen who ever touched a gun barrel. There are those who favor the work of Harry Pope and those who favor George Schoyen. No clear superiority of the work of either man has ever been conclusively proved. Using a Schoyen barrel, D. W. King, Jr. made his 100-shot world record on January 17, 1904, at the grounds of the Denver Rifle Club. Soon afterward Harry Pope equalled the record, using one of his own barrels.

In THE AMERICAN RIFLEMAN and elsewhere we have read about the famous C. W. Rowland, mentioned above, who developed such remarkable accuracy. Here are Mr. Rowland's personal opinions, written on April 3, 1905:

"Regarding the comparative accuracy of the Schoyen vs. Pope barrels, would say that in my judgment and experience in offhand shooting there is but little, if any, choice. Both systems will shoot closer than the ten ring and



George Schoyen's .32-40 barrels were of the wide groove and narrow land type. Here are the dimensions he used:

Bore diameter, inch	**.315**
Groove depth, inch	**.005**
Land width, inch	**.05**
Groove width, inch	**.115**

Seven grooves, one turn of rifling in 16¼ inches

any inaccuracy inside of this will, in offhand shooting, shoot one *in* as often as *out*."

George Schoyen was a native of Norway. He came to the United States as a young man, soon after the Civil War. His first employment was in Chicago, but Schoyen migrated west after the big Chicago fire, making his home in Denver and finding employment there with Carlos Gove.

Mrs. Coleman Bell, one of Schoyen's five daughters, recalls that when her father first went to Denver, Indians were tenants of the same building in which he lived. George Schoyen really earned his membership in the "Sons of Colorado".

From 1873 to 1885 Schoyen worked diligently in the Gove shop. Then Gove retired from business, and Schoyen set up his own shop in partnership with a man named D. W. Butt.

The Schoyen-Butt partnership was of short duration, and in 1887 Schoyen took as a partner F. A. Burgen. Schoyen and Burgen prospered for about ten years.

Then, from 1897 to 1904, Schoyen had no partner. In 1904 Axel W. Peterson became associated with him and their shop was located at 1417 Lawrence Street. Thus began the fortunate and successful association of two great gunmakers, respected craftsmen whose names have echoed and re-echoed in the farthest corners of the shooting world.

Although best known for their fine target barrels, Schoyen and Peterson were skilled in all forms of gunsmithing. They designed a very unusual over-and-under gun, rebuilt fancy target pistols, and made up expensive hunting rifles. The Peterson telescope sight was one of the first to offer internal adjustments.

Target shooters and hunters from all over the world sent in their orders to these two slow-moving, quiet-spoken gunsmiths. When the Earl of Dunraven lived at Estes Park, he would use no guns except those bearing the George C. Schoyen barrel stamp. Lord Lennox and Col. Vivian were other prominent sportsmen whose preferences were the same.

Men of the target-shooting fraternity were inevitably drawn to the Schoyen and Peterson shop. In fact, the annual meeting of the Colorado Rifle Association was frequently held there.

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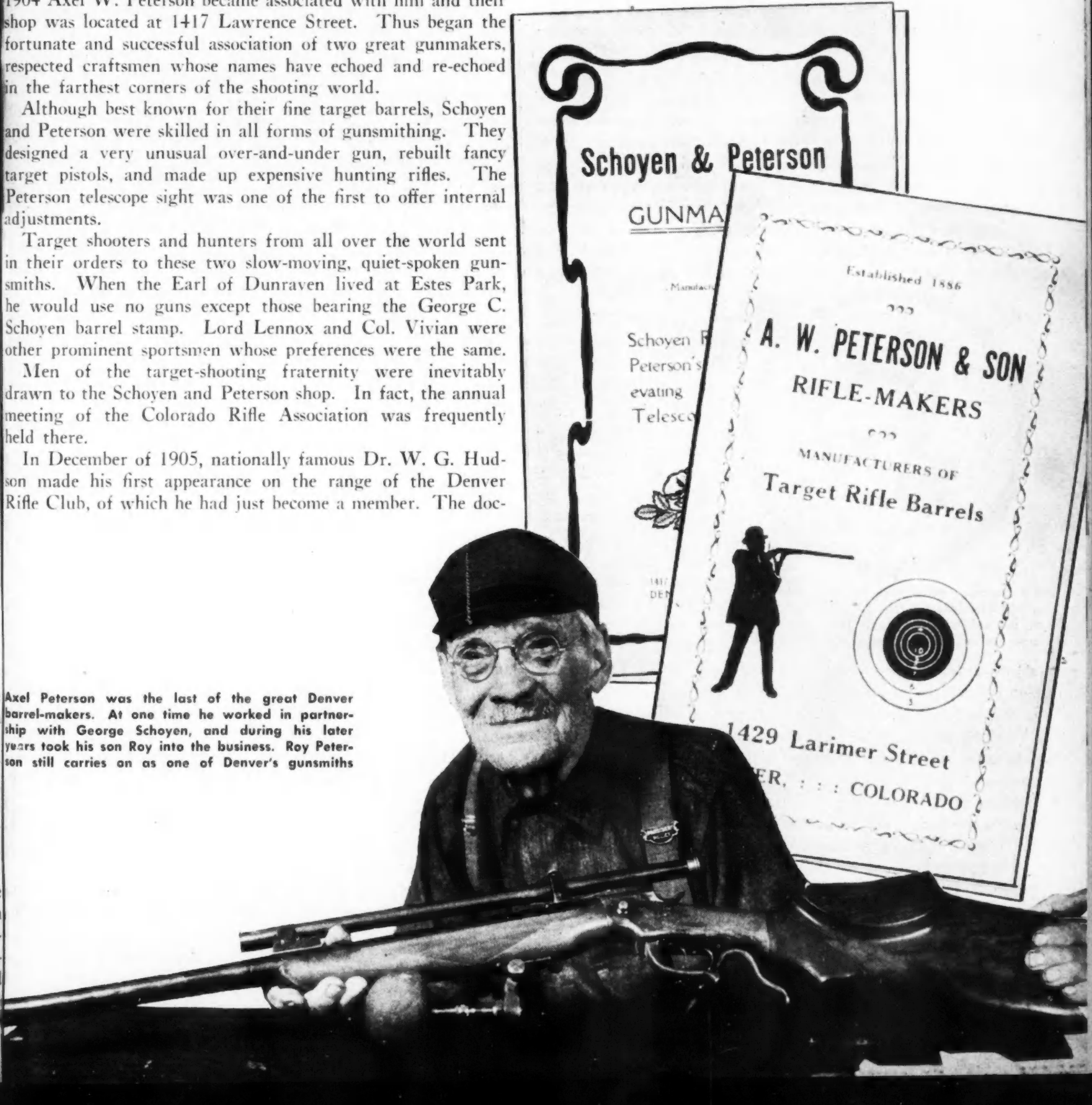

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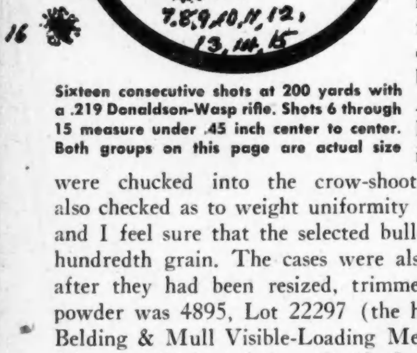
Almost...

Mr. Al Barr   Millersburg, Penna.
National Rifle Association
Dear Mr. Barr:

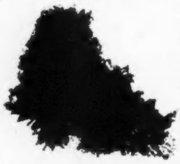
Once upon a time while in your office I mentioned some fairly decent groups made with the .219 Donaldson-Wasp rifle, and you told me at that time that if I ever were to shoot a 200-yard group that might appear interesting I was to send it in to you. Well, the gods that be and the witnesses that see were with me last Saturday evening down at our little improvised range. I was testing a load for a new Wasp rifle that a friend, Mr. Charles J. Henninger, had made for him by our mutual friend Alex Hoyer, of Yeagertown, Penna. The evening was ideal for shooting, with no wind at all; the heat of the day had dissipated and left no mirage whatsoever, and the image through the Unertl 2-inch 15X just sat there.

The rifle was made up by Hoyer using one of the new hard-steel barrels by Gregoire, fitted to a fine Mauser action we dug up for the outfit. L. E. Straub of Mill Hall, Pa., inletted the barrel into the walnut stock, and yours truly did the rest of the forming. This barrel is . . . . 31 inches in length by 1¼ inches in diameter all the way. No metal was turned off this barrel, because we did not want to create stresses that might affect its shooting qualities. The chamber was cut with a new H&M .219 reamer Alex had just gotten. Headspace was kept to the .002-inch maximum in fitting this barrel, with exceptional care taken in the throating. The cases were first formed in a special Wilson die belonging to Chet Leach, and which some confounded scoundrel stole out of his shooting box at Bradford. These cases were twice fired and then trimmed to exactly 1.750 inches in my Wilson case trimmer. I'm sure of the length, because I used a set of Johannson blocks to set up the trimmer. Bullets were carefully chosen out of a lot of 500 Sierra 55-grain bought over the counter. All those that failed to keep within the .0002-inch maximum variation were chucked into the crow-shooting box. They were also checked as to weight uniformity on my laboratory scales, and I feel sure that the selected bullets did not vary a half-hundredth grain. The cases were also selected as to weight after they had been resized, trimmed and chamfered. The powder was 4895, Lot 22297 (the hot lot), and we used a Belding & Mull Visible-Loading Measure for all our loads. Dies were Universal, in a Pacific Super tool. Primers were Winchester 115. That about completes the outfit used.



Sixteen consecutive shots at 200 yards with a .219 Donaldson-Wasp rifle. Shots 6 through 15 measure under .45 inch center to center. Both groups on this page are actual size

Firing commenced at about 7:00 p.m. on the evening of June 18, 1949, first at 100 yards in order to confirm our bore sighting as well as getting the scope lined up initially. We started with 15 on the measure of Dupont 3031, and one five-shot group told us it was no go; switching to 4895 and upping the powder to 16 on the measure (which is the load my own Wasp shoots like a house afire) we got another open group, although very much better. Then we went out to the 200-yard mark for some serious work, and even though 17 on the measure gave us a good group, it appeared that this hard barrel was asking for more powder. The cases showed nothing more than normal pressure, as did the primers. Extraction was normal, so up she went to 17.5 on the measure. Each shot was spotted by Mr. Miller, who was using a scope exactly like the one I was using on the rifle. When I chambered the first round, the bolt closed tightly. I believed the case was slightly large at the base and felt that it would be a flyer. My belief was immediately confirmed.



Rowland's famed 200-yd. 10-shot group measures 13/16 inch center to center

When shots 2 and 3 cut each other I felt that we had a load that would shoot, so I kept on firing, being meticulously careful each shot to return the rifle to the same spot on the sandbags and to maintain the same cheek pressure on the butt of the rifle. After the 4th, 5th and 6th shots it became obvious that something unusual could happen, so I fired the remainder of the components I had selected for this load. Mr. Miller could hardly contain himself, he was so excited, but I suggested that we load and fire just to see what kind of a group the darned thing would really give. That's where the fun started. Miller would throw the powder charge after I had chosen the case out of a box in which I kept the most carefully selected ones, he'd hand me the charged case and I'd seat the bullet with the Hollywood die in the Pacific Super, then he'd race over to his rifle on Henninger's car, climb up on the hood to use the sandbags he had placed on the roof of the car. Then, after the shot he'd yell, "Judas,—same hole," and down off the car he'd jump to load another round for me. That performance went on until after the sixteenth shot, which, as you see, landed right by the first one. Miller was greatly disappointed, and when he looked at the powder measure his face fell in a sheepish sort of look,—he had forgotten to watch the measure, and it was just about entirely empty. I got up from the bench feeling pretty good. I knew that rifle would shoot! Henninger, to whom the rifle belonged, strutted around like a new father with twin boys, and the others who had witnessed the shooting wouldn't believe that a rifle would shoot like that until we went up to the target.

All week these fellows have deviled me to send in this group, especially after I told them about Rowland's ten-shot group of 13/16 inch that has stood so long. So to satisfy the boys, I'm sending in this group. It was fired exactly as indicated. Each shot was spotted and called when fired. The range is exactly 200 yards, measured with a Lufkin steel tape. A bench was used, and firing was done with a large sandbag under the fore-end and a small sandbag under the heel of the stock. The 2-inch Unertl 15X is equipped with a one-half inch Lee dot, and the point of aim for each shot was the center of the ring in which the group is seen. The rifle was equipped with a Miller single-set trigger. The witnesses were Irvin K. Miller, Charles J. Henninger, Donald E. Wingard, and Leroy E. Hoffman.

If this target is acceptable for record, I know it will find a place in your files. If not, Mr. Henninger has asked for it back to tack up in his gun cabinet with the rifle. Either is all right with me, the guy who did the shooting. I'm still optimistic enough to think I can beat it with my own rifle. I'll sure as blazes try.

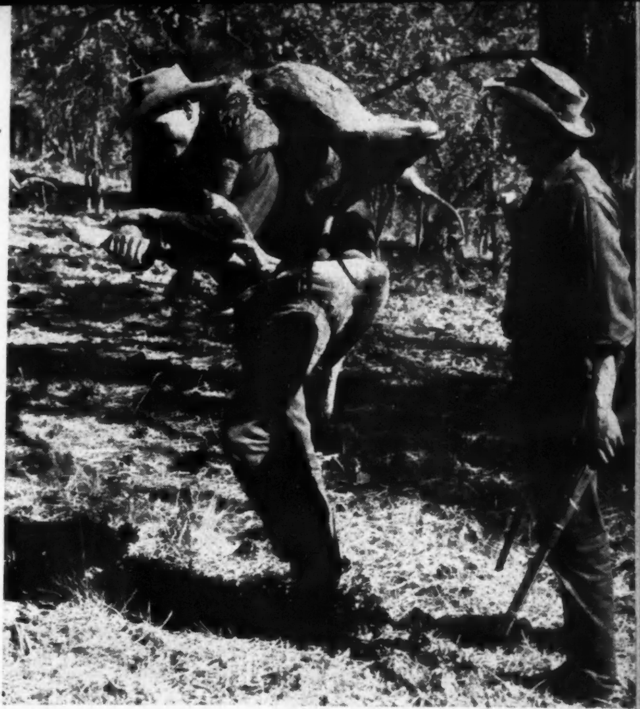
Shootingly yours,
Charles J. Sheetz

Harvesting a Prime Buck

BY CHARLES C. NIEHUIS

POUND for pound, the total investment of U. S. hunters in venison is probably greater than that spent on any other game meat. Yet more of those expensive chunks of venison are lost each year through careless handling than is true of any other game. It becomes evident that there's more to deer hunting than the ownership of a rifle that shoots where you aim it.

With this heavy investment to think of, plus the high price of 'store-bought' meat, it behooves the deer hunter to care for his game so that a maximum of it gets home to butcher's locker or basement deep freeze. Attention to a few basic points of dressing-out procedure will mean more venison, and better, for home use this winter. As for equipment, you need only a good hunting knife—sharp, and stout of blade. Armed with that one piece of equipment, plus the necessary know-how, you'll have no difficulty in salvaging every edible pound of your 1949 buck . . . if you're lucky and get one!



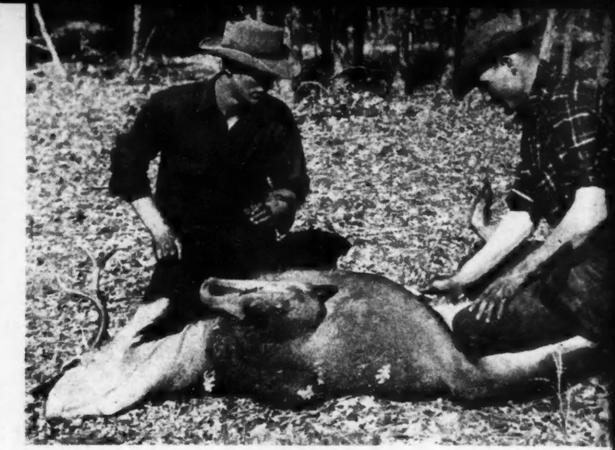
DON'T carry your buck out this way if you can possibly help it. That wobbly head is an invitation for some careless hunter to take a pot-shot at you. If you have to carry your game out alone, drape your red shirt over the head, or tie a brightly-colored handkerchief to the antlers. Better yet, though, wait for your hunting partner, then swing buck head down on a pole and carry it between you

DON'T carry your trophy on a car fender exposed to heat of motor and sun. If possible, put deer in car, luggage on roof or fenders

• •

See following pages for what to do with prime buck

1 These hunters are approaching fallen deer cautiously. 'Dead' deer can sometimes be dangerous if hunter becomes careless. Once you are sure deer is dead, cut throat with sharp, long-bladed knife. Don't attempt to 'bleed', though, unless deer was alive when you came up to it



2 Next step is to roll deer over on its back and make first incision through outer layers of animal's belly, being careful not to cut into intestines. Hunter can use knees as shown to hold animal while making this first cut. Dressing out is messy task but vital if you want to save the meat

3

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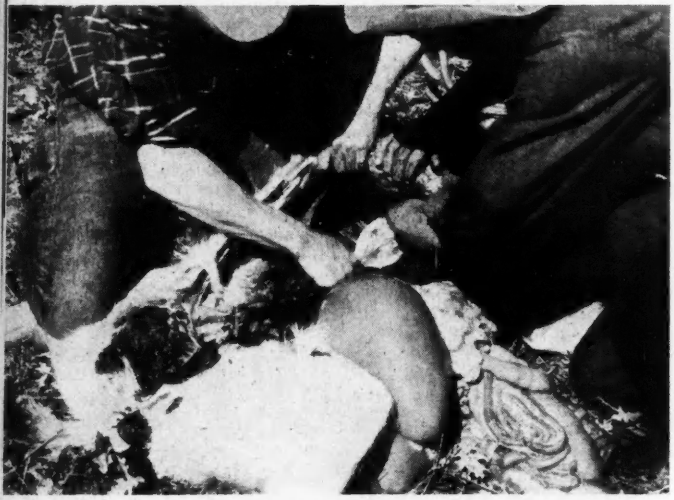

5 After circling the diaphragm and cutting it loose from the chest wall all the way around, open up chest by cutting through cartilage on ends of ribs to one side of brisket. The windpipe and esophagus are then severed and the entire contents of your buck can be rolled out

6 Now get inside the abdominal cavity and trim out frayed and blood tissue. Drain off all fluid. Clean up the inside of your deer a much as possible, and be sure to trim out any flesh that has been 'blow by flies. Make a careful search for fly eggs. Dry all flesh surface

7 H

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9 Hang your buck up overnight so cold night air can chill the carcass. Then in the morning, as soon as the sun gets up, wrap it in canvas or in your bedroll and put it where the sun cannot warm it. Keep the meat cool. This is important. Also protect it against flies as far as possible

10 As soon as your buck has been cleared with state game officials, o legally declared, skin it out and quarter it for easier handling Quarters of venison can be wrapped individually in cheese-cloth or othe porous material that will let air circulate but keep flies away from mea

11

parabl

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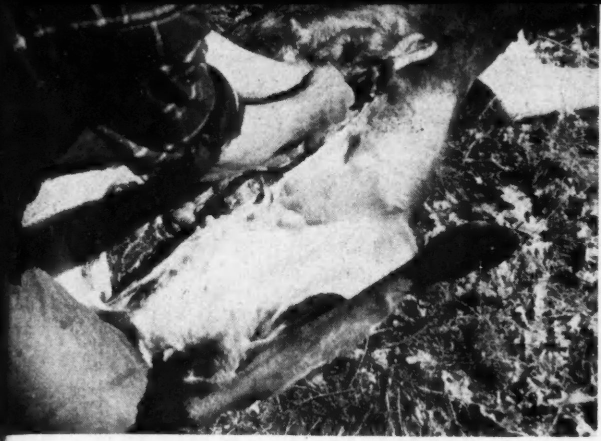
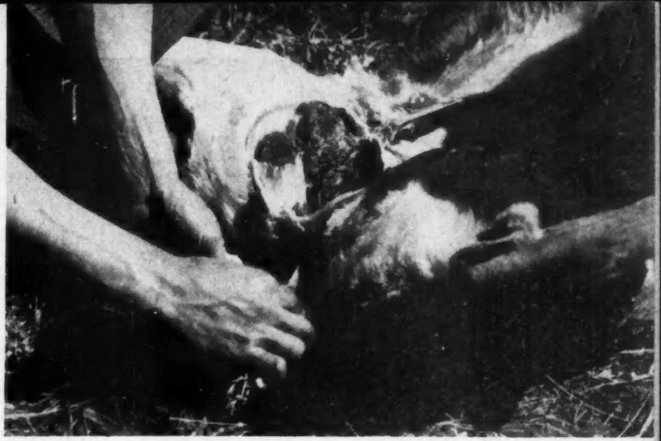
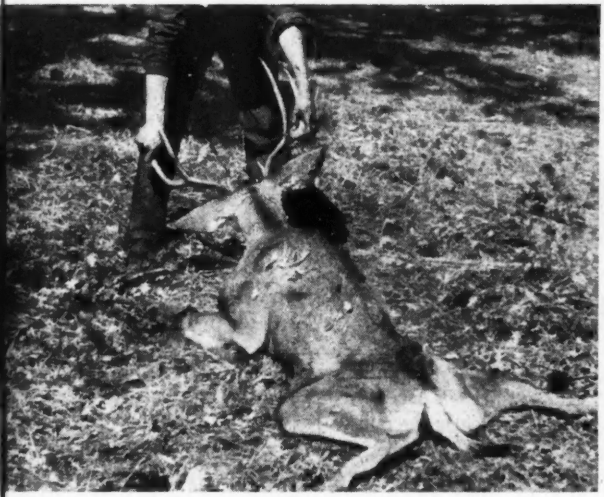


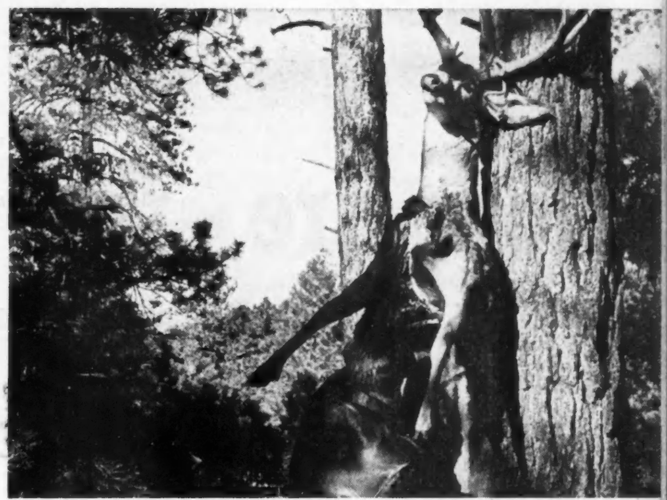
3 After making his first incision, hunter carefully opens the abdominal cavity and inserts two fingers. With the sharp edge of the knife blade up and between the two fingers, split the carcass from the crotch between hind legs up to the chest box, exposing contents all of the way to lungs



4 The next step is to make a deep circular incision around the vent or anus, being careful not to cut into the intestine. Then tie off large intestine with a ten or twelve inch length of heavy cord. This prevents any chance of contamination of meat and makes the job less messy

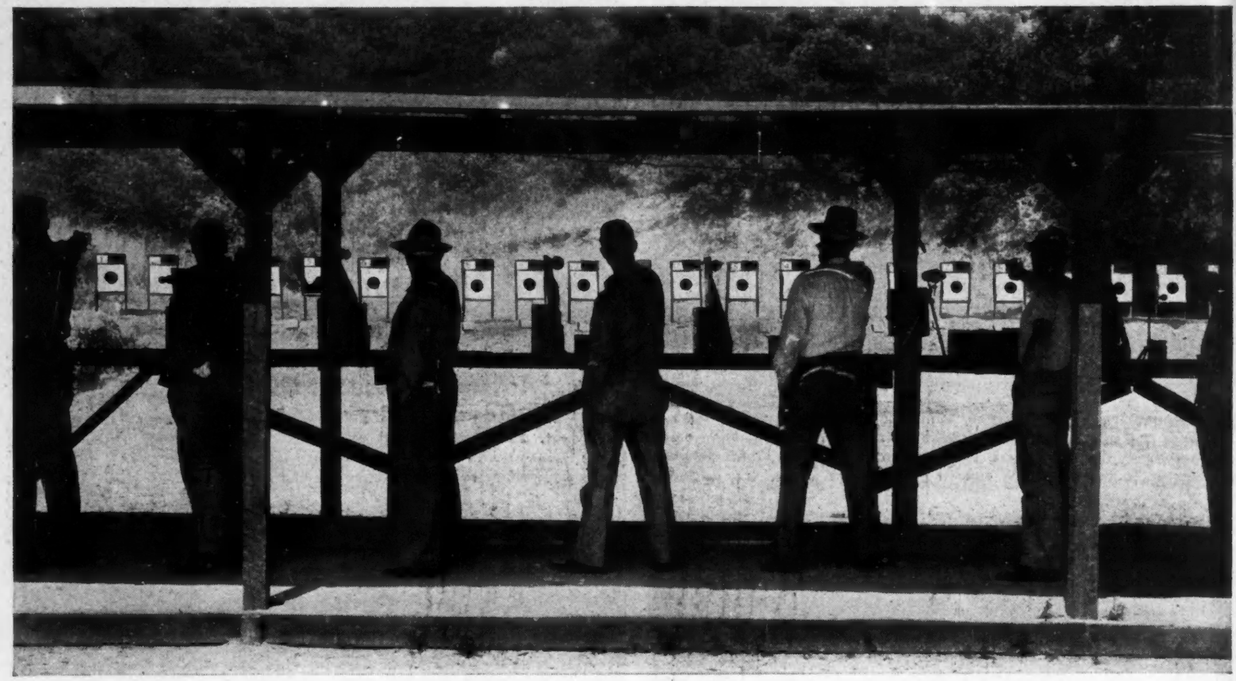


7 Here is a bit of business unknown to many deer hunters. Roll the carcass over on its belly, spreading the hind legs and folding the front ones to raise the chest. This position allows body fluids to drain, and at same time allows air to circulate so that surfaces will air dry quickly



8 After you get your buck back into camp, hang it head up to complete draining and air-drying process. Spread abdominal cavity with stick. This will allow carcass to lose heat as rapidly as possible. Do not wrap until it has lost all body heat. Deer shown should be in shade

11 Don't overlook the heart and liver of your deer. There's nothing quite like roasted or baked venison heart, and certainly nothing comparable to fresh deer liver. These delicacies can be prepared just like any domestic meat. Roll them in flour and cook in fat if you like 'em fried



slow fire - the toughest stage

By Colonel Charles F. Densford

THERE WAS A TIME not so long ago when we used to hear the wiseacres cry, "Okay, here's where we separate the men from the boys." They meant rapid fire. Everybody thought that was the most difficult stage of the course, and maybe it was. But now I feel that the situation has changed. In the last few years, I have become convinced that matches and titles are lost at the slow-fire stage.

A quick glance at the records will bear out my contention. The national records for both timed and rapid fire, with both .22 and .38, stand at 200 plus. But for slow fire, they are still under the maximum possible, clearly showing that slow fire is the most difficult, at least when it comes to knocking off those last few points.

Or consider the scores that you are generally capable of shooting. If you are anything like me, you can generally knock out a 92 or 93 at slow fire, and 97 or 98 at timed and rapid. See the difference? See how much room for improvement there is in slow fire?

Here is a personal example that shows graphically what can be done with a good slow-fire string. In the fall of 1946, I was shooting in the Third Army Area championships, at Ft. McPherson, Georgia, just outside of Atlanta. We shot the .22 last in that tournament. I had just been coasting along, not paying any particular attention to anything except a lot of old friends whom I hadn't seen since before the war. When the last go-round came along, I suddenly awoke to the realization that I was three points up on Joe Benner for the .22 aggregate, with only the National Match Course to go. At the same time, I learned that he had just fired a 99 in the slow-fire stage of that last match. Right then he was busy polishing off the other two stages, ending his efforts with a sparkling 295.

Knowing that I had a chance to beat him made me want to try. But consider the odds. Just five points away from a possible. It isn't every day that any of them can step up on the range and bat out a 295, with any gun. But that's what I set out to do. So I sweated and strained, but the best I could do slow fire was a 95. However, I still had a chance if I went clean from there on out. I got through the timed fire, and the first string of rapid, without dropping any points, but in the last string, the pace proved too much for me, and I dropped two points, coming out with a 293. That still left me one point in the lead. The story has a sequel. After the awards were distributed, the scores were audited, and one of mine was found to have been scored one point too high. That left me tied with Joe, who outranked me on rapid fire. So we exchanged trophies, and got it all straightened out.

The shooter who gets a few points up in slow fire is half-way to winning the match.

The moral to that story is that by setting up that 99 slow fire, Joe had left me a mighty hard row to hoe. When I spotted him four points because a 95 was the best I could do, I was practically licked right at the start. So it will be with you. Get yourself off to a flying start by a super-duper slow-fire score, and then let them come and try to knock you off.

Harold Cline, of San Antonio's Liberty Pistol and Rifle

Club, is one of the finest slow-fire shots in the country. During the seventeen years that I have known him, he has won the Barbera Trophy for 20 shots slow fire at 50 yards more often than any other individual. He gets off to such a good start with slow fire that anybody who beats him has to come from behind. Sometimes Harold gets his neck bowed and won't let anybody pass him, which, of course, he couldn't do if he didn't start out ahead.

You probably noticed, in the reports of the Olympic pistol shooting, that Torsten Ullman, the Swiss champion, keeps a little bucket by his position, and washes his hands after every shot! Why he does it I don't know, unless it is to relax his hand muscles. But at least we can deduce that he takes great pains to make each individual shot count just as much as he possibly can. It isn't enough just to poke your arm out and let the bullets fly in the general direction of the target. You must hold close and squeeze them carefully. Fifty yards is a long distance, and the normal dispersion of the shots will throw you off some. All you can do is to minimize dispersion by taking infinite pains with each shot.

Now while you are taking these great pains, be careful that you don't go to the extreme of holding too long. All of you who have shot any slow fire know the feeling of desperation that comes when you can't get one off. Your arm gets tired and begins to waver; the sights fog up and the target, too, until finally you just yank it off, spot it and cuss. That costs points. You can save yourself those lost points by the simple expedient of taking your arm down, resting and trying it again.

At the beginning of my shooting career, I got some very good advice on that point from Major Fred B. Inglis, coach of the USMA Cadet Pistol Team. He warned us of the dangers of holding too long, and advised us to hold not over ten seconds. I took his advice and made it a rule to get off all slow-fire shots in about ten seconds. If they didn't go off, well-aimed and squeezed, in that time, I quit trying, rested my arm and started all over again.

I would not go so far as to prescribe an arbitrary ten seconds for everybody. Some can hold much longer than that without wavering. But I would certainly advise each shooter to check up on himself and find out how long he can hold comfortably, and then not exceed that time. It will save him some points, if he is not too proud to pull his gun down and start over.

In 1931, when I first went to Perry, I got a tip from the late Jake Engbrecht, who was then just about in his prime. We were shooting re-entry matches, for practice, on one of those windy days that so often plague the gun lovers at the annual gathering. I was fighting the wind, and losing points, strength and patience, when Jake spoke to me.

"Son, take a tip from me and don't fight the wind; out-wait it."

I didn't savvy how that could be done; I was afraid the time would run out on me. But Jake took the time and trouble to explain it to me.

"When the wind is blowing like this, you'll nearly always find that there will be a lull every now and then. Be ready and when a lull comes, get off two or three shots as fast as you can. That way you'll have the advantage of being rested when you shoot. Your scores won't be as good as if you were shooting under a no-wind condition, but they'll be better than if you tire yourself out fighting the wind."

Well, I tried it and it worked. I've been doing it ever since. When the day is windy, just stand and wait, ready. After a little experience, you'll get so you have a pretty good idea of when the wind is going to ease up. The sound of the wind rustling leaves in the trees is a fair indicator, if the spectators are quiet enough to let you hear it. When it eases up, bring your pistol up and start squeezing. As soon as one shot goes, take up the squeeze on the next one, and so on as long as the lull lasts or until you get tired. The number of shots you get off will depend on how many you have to shoot, how much time you have left, how fast you can shoot them without sacrificing accuracy, and how strong your shooting arm is.

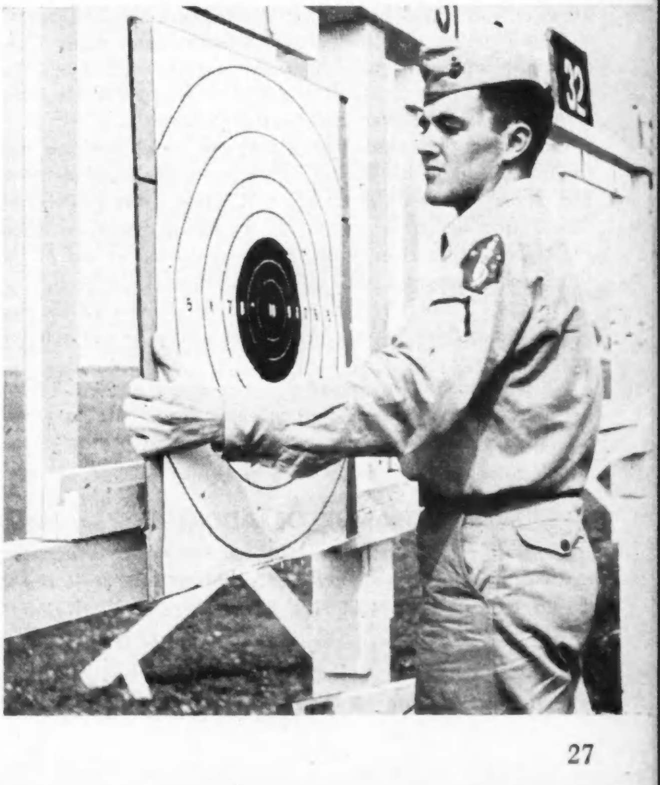
When you are shooting to outfox the wind, you'd better plan on getting each shot off in much less than the 10-second time limit. In general, you can't expect a lull to last more than about ten seconds. In that time you ought to get off at least two well-aimed and squeezed shots, and preferably three.

One sure-fire way to outsmart the wind is to shoot all your slow fire on the Austin Police Pistol Club Range, down in the capital city of Texas. On the left is a stone wall about fifteen feet high, on the right and in the rear are groves of trees about fifty feet high, and in front, beyond the earth backstop, is a young mountain about 300 feet high. All the wind you have to worry about is what can hurdle the wall on the left or trickle through the trees on the right.

Maybe the ideal conditions on the Austin Range account for the frequent appearance in the slow-fire records of the names of Harold Cline, Don Lawrence and Jess Woody. On the other hand, the Texans may be spoiled, so that when they get on a range less well-designed than their own, they are not prepared to stand up under more rigorous conditions. Jess and I will argue that one with you, however.

The most disagreeable wind conditions I ever encountered were on one of the most beautifully-designed ranges in the country—the Palmetto Pistol Club Range, at Coral Gables, Florida. The landscaping is a horticulturist's dream, and the targets that move right up to the firing line make you wonder why Clem Thiede and Flamingo Kelly don't provide each firing point with a lawn chair and a mint julep.

But oh that wind! It blows from every direction, with nothing to stop it between Lookout Mountain, Tennessee, and the hills of Puerto Rico. It blows so hard all the time that I don't understand how they know when they are having a



hurricane. That wind doesn't just blow you out of the 10-ring into the 9-ring—it blows you clear off the target! Lulls are brief and infrequent, so that you have to take your choice between fighting the wind or taking up the slack and yanking the trigger as the bull goes by.

It was under such conditions that I saw one of the finest exhibitions of slow-fire shooting that it has ever been my good fortune to witness. Due to lack of personnel, shooters not on the line acted as scorers. In the block of targets which I scored, there was a young Marine officer named L. M. Patterson, who turned in a 96-94 score at 50 yards with the .45. You can count on the fingers of one hand the shooters in the country who can turn in a 190 at 50 yards with a .45 under *ideal* conditions, but not even Harry Reeves or Joe Benner can do it in a howling gale.

How he did it, I'll never know. In my own mind, I have always believed that there is a lot of luck to 50-yard shooting anyhow, and it must have been working overtime for Patterson. I say that not to belittle his accomplishment, for it was a fine bit of shooting. But I feel sure that luck played a big part in it because I went on the line right after him and fired 89-94. Now before somebody discovers it and taxes me with it, I'd better announce that I scored for Patterson and he scored for me. However, I assure you that each of us grudgingly gave the other exactly the score he got for each shot.

Here is a tip that is guaranteed to net you a few more point on your slow-fire scores. Make sure that you trigger finge pulls straight back, and not off to one side or the other. I stands to reason that if you exert any side pressure on th trigger, a perceptible deviation laterally will result, eve though only an infinitesimal fraction of time elapses betwee the explosion and the emergence of the projectile from th muzzle. But don't take my word for it—try it out for your self. Make a conscious effort to exert all trigger-pressur along the axis of gun and arm. You will see that, all othe things being equal, your slow-fire scores will improve.

Just in case you need further urging to work on your slow fire, here is an inducement. Each year at the Nationa Matches, the top eleven shooters in the .22 slow-fire match make up the U. S. team for an International Match, usually participated in by the United States, Canada, England and Mexico. The United States team usually wins it. I made the team in 1947, and considered it a great honor. I missed it in 1948, and cussed myself for several days. Now if you are not one of the top fifteen pistolmen in the country, you will have to extend yourself to beat somebody out of a place on that team, because, brother, they are tough. You will need all of the suggestions I can give you, and then some.

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The Gunmakers of Denver

(Continued from page 21)

and he gave to American riflemen unexcelled excellence in their custom rifles.

After Schoyen's death, the business was continued by A. W. Peterson. Soon the firm name was changed to A. W. Peterson and Son, Roy Peterson having joined his father in the work. Under this name almost thirty years of further continuous operations kept in Denver a nationally acclaimed source of top-quality custom barrel work and gun building.

Axel Peterson, like his partner Schoyen, came from Scandinavia at an early age, and worked briefly in Chicago. His arrival in Denver in 1879 was but a few years after the arrival of J. P. Lower and George Schoyen.

One thing that always fascinated me about Peterson was the movements of his hands. They were small and delicate. He never 'grabbed' anything. Whenever Axel Peterson picked up a tool or a gun barrel, his hands seemed to caress the object rather than grasp it. Possibly that is one of the things which makes a great craftsman—that skilled 'touch'.

One day I asked Axel Peterson where he obtained the fine wood used in those famous 'perch-belly stocks' he and Schoyen produced.

"A feller from here used to go vunce a year to New York," he said. "He vas a good vun to know vood. He knew vot ve like and he picked out for us only the best planks."

It is a tribute to the climate of Denver and to their way of life that the four gunmakers, Gove, Lower, Schoyen and Peterson, all lived to enjoy their 'three-score and ten'. Schoyen reached his seventieth birthday; the others all exceeded thei eightieth.

When George Schoyen died in 1916, John Lower, who survived him a short time, voiced words which might well b applied to all of these four great pioneer gunmakers. Said Lower: "That man was an artist—one of the very bes gunmakers in the whole country. And a fine man, too. A fine gunmaker and a fine man."

Roy Peterson, Axel's son, now carries on at the old Larime Street address. But times have changed. Roy's work i primarily devoted to modern hunting arms. The chapter o fine barrelmaking in Denver is ended.

The story of Denver's "big four" will live on, and th products of their skill are now being more carefully preserved and more fully appreciated by collectors and shooters throughout America. Let there always be warmth in our hearts for Carlos Gove, John Lower, George Schoyen and Axel Peterson.

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PHOTO CREDITS: Page 13, Denver Public Library Western Collectio (2); courtesy Mrs. Coleman Bell. Page 15, Courtesy George L. Lower. Gu in collections George L. Lower (2) and M. C. Clark. Page 16, drawing b Edward Rybolt. Page 17, John Grissinger, Littleton, Colorado, from Allyn H Tedmon.

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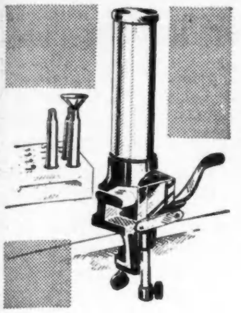
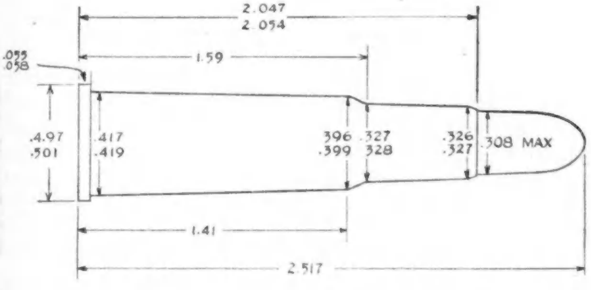


LOADS FOR THE .30-30

This article on 8-mm. handloads is the sixth of an important RIFLEMAN *series covering the more popular American rifle and pistol cartridges. The series so far has included "Loads for the '06"* (RIFLEMAN, *April, page 28), "Handgun Handloads" (May, page 32), ".257 Roberts Loads" (June, page 32), "Loads for the .270" (July, page 38) and "Loads for the 8 MM." (August, page 40).*

Preparation of the material for each article was handled jointly by the NRA's Al Barr and the H. P. White Company of Cleveland, Ohio (see RIFLEMAN, *November 1948, page 21). Five rounds of each of the eight loads listed in Table I were checked for average velocity figures and the loads were tested for pressure in a barrel of .300-inch bore diameter, .308-inch groove diameter, 24 inches long, in a Modern-Bond Universal receiver using Winchester copper crushers with variation in length controlled to .001 inch and Winchester tarage tables. Velocities were measured on a Potter electronic counter chronograph. Room temperature varied from 78 to 82 degrees.*



Drawing shows maximum and minimum critical dimensions of the .30-30 cartridge. Figures are averages of measurements of ten commercial loads

THE Winchester model 1894 lever-action repeating rifle was the first American repeating sporting rifle especially designed for and adapted to high-power smokeless powder cartridges. It was first offered to the public in May of 1895 and with it were introduced two new cartridges, the .25-35 Winchester Center Fire and the .30 Winchester Center Fire. Since the .30 Winchester round was frequently called a .30-30 by firms other than Winchester, the designation, based on the fact that the original loads contained 30 grains of smokeless powder, is now in almost universal usage. These two cartridges were the second and third smokeless powder sporting cartridges introduced in this country, the .30-40 Krag having been commercially available since April of 1894. The model 1894 rifle in .30-30 caliber has enjoyed such popularity since its introduction that it has earned the reputation of being the standard deer rifle throughout the United States and Canada. As far back as 1927 the one millionth model 1894 was chambered for the .30-30 and presented to the late Calvin Coolidge, then President of the United States.

When introduced, the .30-30 was loaded with a 160-grain soft-point bullet to a muzzle velocity of 1970 feet per second. The only other .30-caliber smokeless powder round at that time was the .30-40 Krag with the 220-grain bullet at 2066 feet per second. The Krag cartridge, and the weapon in which it was used, was far too heavy, unpleasant to shoot, and much more powerful than required for the average hunter in search of medium-sized game. The lever-action arms with tubular magazines have always been popular with hunters due to their compactness and swiftness of operation. It has only been in recent years that the bolt actions have been more widely used because of their ability to withstand the higher pressures necessary to gain the flatness of trajectory needed for modern-day accuracy at greater ranges. A number of guns on the market today use the .30-30 cartridge. Among them are the Marlin model 336 lever-action rifles and carbines; Stevens model 325 bolt-action rifle; Stevens model 219 single-shot rifle; Winchester model 94 lever-action carbine; Winchester model 64 lever-action rifle.

All too often a great argument will arise when someone of limited military knowledge will refer to the .30-'06 as a .30-30. The origin of the fallacy is unknown. By no stretch of the imagination can the .30-'06 round be given the designation, since even its original loads contained between forty and forty-five grains of powder. The .30-'06 case has a capacity of 4.35 cc. while the .30-30 case has a capacity of only 2.92 cc. The .30-30 was never intended as a military cartridge, nor has it ever seen official service in that capacity, although its use by various law-enforcement agencies has been quite widespread for the guarding of prisoners and as supplementary armament in police cruisers.

Selecting loads for the so-called .30-30 Winchester cartridge is a comparatively simple job, the reason being that the relatively small capacity cartridge case eliminates the possibility of using slow-burning powder. The powder selection thus boils down to IMR 4198, for use with very light bullets such as the 110 grain, and DuPont No. 3031 or Hercules HiVel No. 2. The DCM powder, IMR 4895, can be used also in place of No. 3031 in the .30-30 cartridge, both with lighter and heavier bullets.

Because of the lack of experience in loading the .30-30 cartridge, we referred to the best available loading information, taking in several instances the maximum recommended charge for a given bullet weight for a given powder. These recommended charges will be found in several of the handbooks on reloading and in Phil Sharpe's *Complete Guide to Handloading*. They are figures published in "Better Loads for Better Shooting", a booklet put out around 1936 by the

DuPont Company. Somewhere along the line, a change in powder, primers or something else has undoubtedly caused a noticeable increase in pressure for the generally recommended maximum charges. Undoubtedly these unforeseen and unpredictable changes of variables in a given load are good reasons why the powder companies no longer recommend maximum powder charges. Certainly the results we obtained are good indication that no one should recommend specific maximum powder charges for any cartridge.

The lack of first-hand experience developing loads for the .30-30 cartridge will show up at first glance at Table I. From the pressure figure column it can be seen that we have exceeded the accepted pressure limits for the cartridge in lever-action rifles. Possibly many of the loads were developed for the relatively few bolt-action rifles made for the cartridge. It is certain all the loads listed in Table I would be safe in a good bolt-action rifle even though some of them approach maximum figures. The accepted practice as to pressure tolerances for .30-30 loads in lever-action rifles is not to exceed 42,000 pounds. Therefore, when using the loading data given here as a guide, a reloader should keep in mind that powder charges must necessarily be reduced to be within the safe recommended pressure tolerances.

Realizing the importance of seating depth in connection with maximum powder charges, we have checked the seating depth for the loads developed against those recommended as maximum by the powder companies. Where we used a .28-inch seating depth with a 110-grain bullet, the maximum load listed to give 2630 foot-seconds velocity was 37 grains of No. 3031 and .25-inch seating depth. For the 150-grain bullet, instead of the .30-inch seating depth we used .41-inch seating depth with the maximum load of 35 grains which gave 2500 foot-seconds velocity. With the 170-grain bullet the recommended charge of 33.5 grains of No. 3031 gave 2300 foot-seconds velocity with .48-inch seating depth, instead of .49 which we used. Note that the loads developed very high pressure, the greater seating depth having noticeable effect. By using a shallower seating depth, the recommended three-grain reduction could be changed to two grains.

In keeping with the higher pressures obtained in our tests, the velocities are up also. Therefore, by reducing the powder charge as suggested, handloads can be made up which will equal the velocity of factory loads. Factory ballistics for the .30-30 indicate a velocity of 2720 foot-seconds with a 110-grain bullet, 2380 foot-seconds with a 150-grain bullet, and 2200 foot-seconds with the 170-grain weight. These velocities can be equaled safely using Hercules HiVel No. 2 powder. The recommended data with the 110-grain bullet is a maximum charge of 35.5 grains with .229-inch seating depth which gives 2760 foot-seconds velocity. With 150-grain bullet, the maximum listed is 30.9 grains and .470-inch seating depth giving 2300 foot-seconds. With the 170-grain bullet and .489-inch seating depth the maximum charge of HiVel No. 2 is 30 grains giving 2175 foot-seconds. All these loads should be within the safe pressure tolerances of around 40,000 pounds per square inch.

Manufacturers' Specifications

	110-grain open point	150-grain open point	170-grain soft point
	Velocity, Foot Seconds		
Muzzle	2720	2380	2200
100 yards	2260	2060	1930
200 yards	1840	1770	1680
300 yards	1515	1510	1460
	Striking Energy, Foot Pounds		
Muzzle	1810	1890	1830
100 yards	1250	1415	1405
200 yards	827	1045	1065
300 yards	560	760	805
	Midrange Trajectory, Height, Inches		
100 yards	0.7	0.9	1.0
200 yards	3.5	4.0	4.5
300 yards	10.0	11.0	12.0
	Sighting In, Iron Sights, Inches		
50 yards	0.7 high	0.9 high	1.0 high
100 yards	on aim	on aim	on aim
200 yards	6.0 low	6.5 low	7.5 low
300 yards	24.5 low	26.0 low	28.0 low

While the 180-grain or heavier bullets are not considered best for the .30-30 cartridge, it is interesting to note what happened with load number 5 using the slow-burning No. 4350 powder. The powder unquestionably was compressed, yet velocity is very impressive considering that the pressure figures are just slightly above the maximum limit. One note of interest with load 5 was very uniform pressure with each individual load, indicating that with the heavy bullet in the case the powder was burning very uniformly. Even velocity figures were quite consistent, with the low being 2278 foot-seconds and the high being 2315 foot-seconds. In pressure and velocity ratio, No. 5 was about as uniform load as was obtained with any cartridge and any load. The extreme velocity variation was only 37 feet per second and difference between high and low pressure figures was approximately 2000 pounds per square inch.

While stressing the importance of reducing some loads for use in lever-action rifles, bullet diameter should not be overlooked. For example, loads 1, 2 and 3 were made up with bullets full .308-inch diameter; generally the .30-30 bullets run smaller in diameter. The larger diameter bullets undoubtedly had something to do with the increased pressures of the maximum recommended charges.

When loading the .30-30 or any other cartridge used in lever-action rifles, cases should be full-length resized, partic-

Table 1: Velocity and Pressures for .30-30 Loads

Load	Bullet Weight (Grains)	Type	Bullet Diameter (inch)	Seating Depth (inch)	Charge (grains)	Powder Type	Lot No.	Primer	Case Make	Velocity 20 Ft. (F.P.S.)	Pressure (Lbs.Sq.In.)	Remarks
1	110	Speer S.P.	.308	.28	37.0	3031	88	WRA 115	WRA	2875	45,600	Cut load two grains
2	150	Speer S.P.	.308	.41	35.0	3031	88	WRA 115	WRA	2548	49,400	Cut load three grains
3	150	Speer S.P.	.308	.41	36.0	4895	27277	WRA 115	WRA	2509	49,160	Cut load three grains
4	170	R A S. P.	.3065	.49	33.5	3031	88	WRA 115	WRA	2401	46,940	Cut load two grains
5	180	Peters Belted	.306	.50	39.0	4350	10	WRA 115	WRA	2297	43,100	Cut load one grain
6	154	Gas Check	.311	.43	14.0	4759	2C	WRA 115	WRA	1539		Target load
7	154	Gas Check	.311	.43	18.0	4198	8C	WRA 115	WRA	1677		Accurate
8	170	Commercial								2285	36,180	

ularly with heavy charges. Frequent reloading will cause cases to stretch and they should be trimmed to the maximum case length of 2.039 inches.

We know of at least three bolt-action model 54 Winchesters made for the .30-30 cartridge whose owners have obtained accuracy equal to that possible with most any .30-caliber cartridge. Some of the loads developed, especially for target shooting, were 6 to 8 grains of No. 80 powder with the Bond plain-base bullet No. A-311700 weighing 120 grains. No. 80 is no longer made but a duplicate load would be 7 to 9 grains of No. 4759, which is very light. For velocity of 1350 feet per second with the same bullet, about 13 grains of Hercules Unique would make a very good load.

Very fine accuracy has been obtained also with the Squibb-Miller bullet No. 311168 or the Ideal No. 308241 weighing 154 grains. With the Ideal 308291 gas check weighing 165 grains or the Bond 311890 or the Bond 311910, fine accuracy can usually be had with 14 to 15 grains of No. 4759, or 18 to 19 grains of No. 4198. The same bullets frequently work well with 16 grains of Hercules No. 2400. For a 50-yard squirrel load, a light bullet such as the 115-grain Ideal 3118 frequently works with 5 grains of Pistol Powder No. 5 or No. 5066 or 4 to 4.5 grains of Pistol Powder No. 6.

One of the best lead bullets that we can recommend is the one used in load number 7. Powder 4198 also works well with lightweight jacketed bullets. In addition to the 110 grain, where the maximum charge is about 32 grains to give 2700 foot-seconds velocity, the same load frequently works very well with the 93-grain Luger soft-point or open-point bullet. Another good load with the Luger bullet is 22 grains of Hercules Sharpshooter, giving nearly 2700 foot-seconds velocity at very safe pressure. With this light bullet, Hercules No. 2400 works very well and a good accurate load is 22 grains, giving a little better than 2600 foot-seconds.

The .30-30 cartridge, as well as any others used in lever-action rifles, usually performs best at the lower pressure levels. For that reason, and for the safety angle as well, loads listed in Table I showing the very high pressure figures should be reduced. Any load listed could be used in any strong bolt-action rifle.

When loading any .30-30 cartridges or others used in tubular magazines, special attention must be paid to bullet fit in the case neck. Generally, a close-fitting case neck over the bullet is relied upon to hold it in place. For use in the tubular magazines though, the case mouth should be crimped well over the bullet, otherwise it may be shoved back in the cartridge case, increasing the seating depth and boosting pressure noticeably. The tubular magazine prevents use of long spitzer-pointed bullets. Only rather rounded blunt-nose, soft-point or hollow-point bullets should be used to avoid the danger of setting off a primer while the cartridges are in the magazine.

Generally, better accuracy is obtained with lead bullets, when the case is not crimped tightly on the bullet. To avoid this objection, light handloads for target use can be used singly and then the crimping operation is not necessary.

While the .30-30 cartridge is generally considered one suitable only for hunting purposes, its accuracy performance in good rifles, properly handloaded, should not be overlooked. Only the type of rifles in which the cartridge is used is somewhat of a handicap when it comes to developing very fine, accurate loads.

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National Small-bore and Pistol Matches

On September 1 and 2 the 1949 National Championship to determine the nation's top-ranking small-bore rifle shooter and pistol shooter will get underway.

Approximately 250 riflemen will take over the Camp Dodge range for four days of firing. Included will be the firing of the International Dewar Team Match and the selection of part of the team to represent the United States in the International Matches this November.

Ft. Sheridan will draw several hundred pistol shooters, many of whom will be service personnel attracted by the first opportunity in two years to fire in the National Individual and Team Trophy Matches.

The following is the day to day schedule of matches to be fired on the two ranges:

National Small-Bore Championship

Camp Dodge, Iowa
September 2, 3, 4 and 5

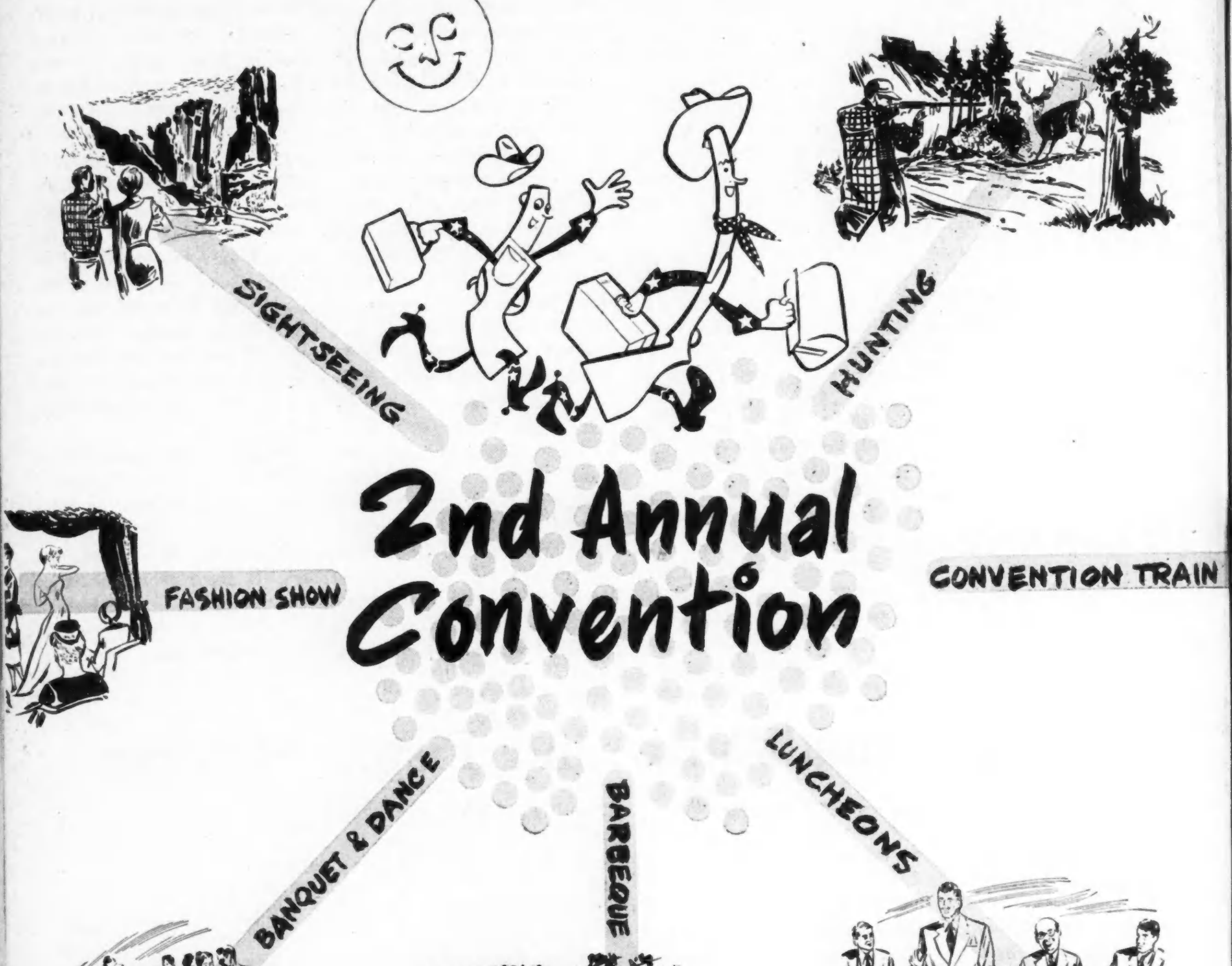
Friday, September 2
  Practice for all competitors
Saturday, September 3
  Metallic Sight Championship
    40 shots, 50 yards
    40 shots, 50 meters
    40 shots, 100 yards
  Dewar Course at 50 and 100 yards
Sunday, September 4
  Any Sight Championship
    40 shots, 50 yards
    40 shots, 50 meters
    40 shots, 100 yards
  Dewar Course at 50 and 100 yards
Monday, September 5
  International Dewar Team Match
  U. S. International Small-Bore Rifle Team Tryouts
    40 shots, 50 meters, prone
    40 shots, 50 meters, kneeling
    40 shots, 50 meters, standing

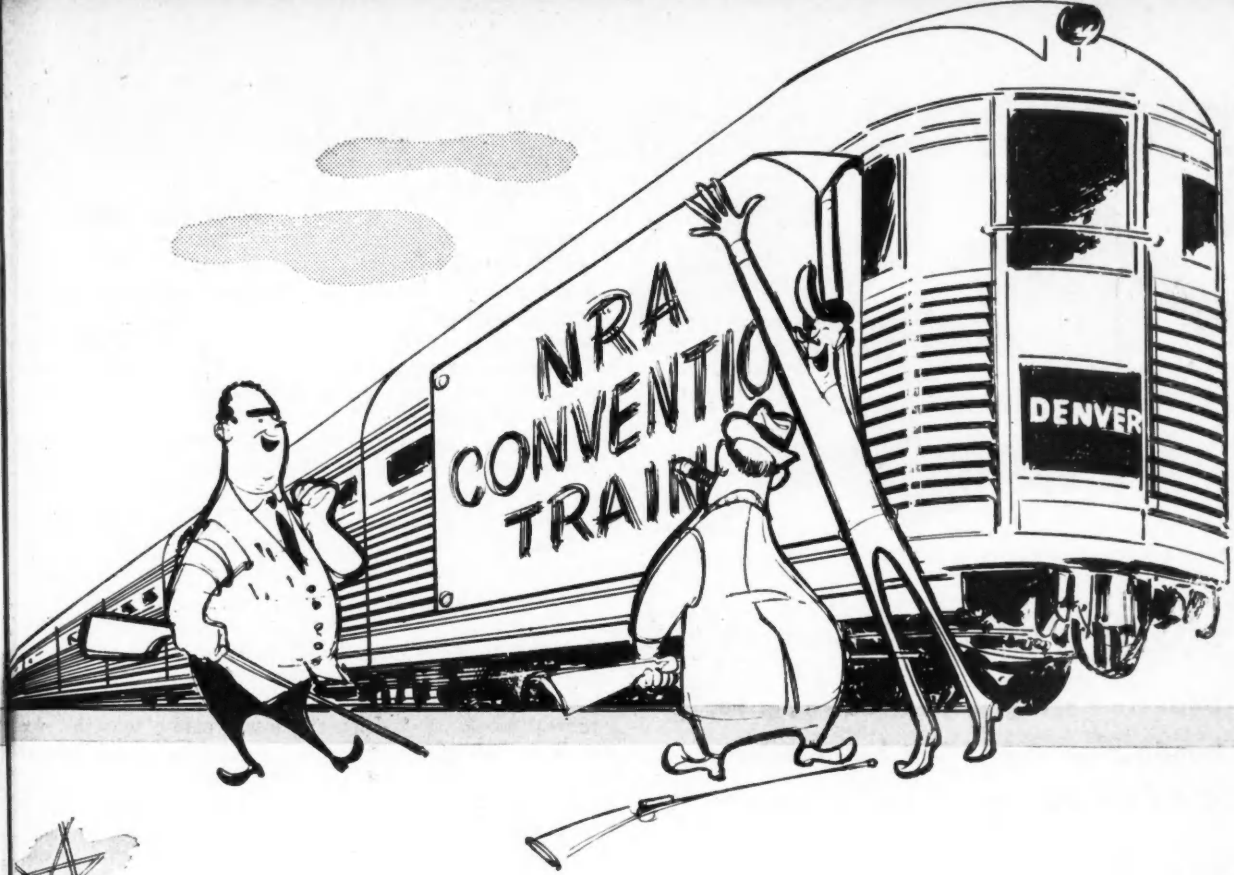
National Pistol Championship

Ft. Sheridan, Illinois
September 1, 2, 3, 4 and 5

Thursday, September 1
  Practice for all competitors
Friday, September 2
  National .22 Caliber Championship
    20 shots, slow, timed, rapid fire
    30 shots, National Match Course
  Four-Man Team Match, National Match Course
Saturday, September 3
  National Center-Fire Championship
    20 shots, slow, timed, rapid fire
    30 shots, National Match Course
  Four-Man Team Match, National Match Course
Sunday, September 4
  National .45 Caliber Championship
    20 shots, slow, timed, rapid fire
    30 shots, National Match Course
  Four-Man Team Match, National Match Course
Monday, September 5
  National Trophy Individual Pistol Match
  National Trophy Pistol Team Match
Tuesday, September 6
  United States International Team Tryouts

2nd Annual Convention


SIGHTSEEING
HUNTING
FASHION SHOW
CONVENTION TRAIN
BANQUET & DANCE
BARBEQUE
LUNCHEONS



The addition this year of a special convention train adds the last touch of perfection to this annual get-together of US shooters. Better make your reservations now! Write to the NRA for fares, schedules, and reservation form.

Come by train . . . by plane . . . by auto . . . by pack mule . . . or Shank's mare, but be there! The Second Annual Convention offers a never-to-be-forgotten experience. There, gathered into one great Western hotel, will be the people in the world of guns that you've wanted to meet . . . the rifles, loading tools, scopes and gadgets you've wanted to hold in your hands and examine. A colorful Western city waits to welcome you. You will return with a wealth of new friends, new information, new experiences, new satisfaction in having done your share in the running of your national association. Plan now! Act now! Send for whatever information you need, and then join us in Denver!

PLAN NOW TO ATTEND!

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OCTOBER 17-21

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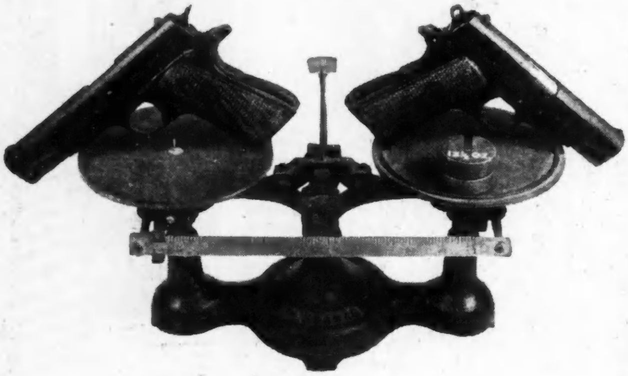

LIGHTWEIGHT COLT AUTO

Experimenting with aluminum for handgun receivers, Colt has produced a .45 reduced one-third in weight.

An aluminum pistol? Absurd! Everyone knows a handgun has to be machined from solid steel, steel of the best quality, steel which is usually forged before machining. A semiautomatic pistol takes a lot of abuse. The slide or the breechblock slams rearward at a velocity of about 45 miles per hour. In the .45-caliber automatic pistol, the head of the cartridge case exerts a rearward thrust of almost a ton. You have to have a pretty rugged piece of machinery to absorb this punishment for thousands of rounds.

The .45-caliber Colt automatic pistol was adopted as the official sidearm of the armed forces by the United States Government back in 1911, and is now officially designated as the M1911A1. This gun has proven, in its thirty-eight years of service, that it is a dependable, rugged, hard-hitting handgun, and so it was chosen to have its face lifted.

Early in 1948 the Colt Company, in the course of developmental work for a more universal acceptance of lightweight, heavy-caliber automatic pistols, decided to see what would happen if a receiver was made from aluminum rather than from the standard alloy-steel forging. Working with the Aluminum Corporation of America it was decided, after experimentation, to try one of the high-tensile strength aluminum alloys. Several forgings of this amazingly light metal were specially made and issued to the Colt receiver-machining department, and some one hundred and forty-odd machining operations were performed on them. The result was a half dozen .45-caliber automatic pistol receivers that seemed to jump over one's head when they were picked up off the bench. These were assembled into pistols chambered for 9-mm Parabellum, .38 Super automatic, and .45 ACP cartridges.

The new slide was fashioned from forged gun steel a before, but was shortened from 7⅜ inches to 6⅝ inches i length, and the barrel was correspondingly cut down from 5 inches to 4¼ inches. This gave an overall length of 5⅝ inches compared to a previous 8½ inches. The receiver itself was shortened about ⅝ inch, the front portion being shortened and the rear spur at the grip safety area giving up a bit of prominence. A Mauser-like hammer was built, and the barrel bushing, the recoil-spring plug and the recoil spring guide were all made a bit shorter. A new recoil spring was developed, as was a new ejector. The mainspring housing was fashioned from the same high-tensile aluminum alloy as was the receiver. Sight heights were altered to conform with the reduced lengths of barrel and slide and to conform to the ballistics of the test-caliber cartridges. The new lightweight, with magazine, 'weighed-in' at about 26½ ounces compared to its all-steel counterpart's weight of about 4 ounces. An anodizing process produced a blued finish on the receiver and housing that was comparable to the standard blue of the steel parts.

The new gun was ready to speak its piece. The results of first tests were most gratifying—and also amazing, for there seemed to be no apparent increase in recoil. The recoil was a bit faster, but the effect on the shooter was the same. Several people, after firing this pistol, agreed that the recoil with the .45 caliber was about comparable to the standard heavier .45-caliber gun. At any rate, the new gun in .45 ACP, 9 mm., and even .38 Super, was surprisingly pleasant to shoot.

A new gun has been born—a gun having the intrinsic dependability and ruggedness of the Government model, yet a gun which is less bulky to carry and is about 35 percent lighter. Extensive tests have been conducted with all three calibers, and the light pistols have proven their right to take places alongside their heavier predecessors. Plans also have been made to conduct tests with lightweight arms chambered for .30 Luger and .380 ammunition.

Perhaps soon, automatic pistol users will be able to pack a hard-hitting, heavy-caliber automatic pistol that will weigh no more than a pocket pistol. For the time being, though you'll have to be satisfied with a .45 of standard weight. Remember, they made only a half dozen of those lightweight receivers.

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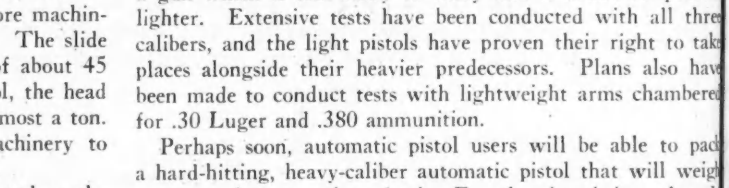

With overall length reduced 2⅞ inches and many parts, including the slide, made fro aluminum, experimental lightweight Colt .45 has recoil about equal to that of all-steel mod

this stuff, gunpowder

BY JULIAN S. HATCHER

Last month, in the RIFLEMAN'S *timely republication of Julian Hatcher's discussion of gunpowder facts, the basic behavior of explosives was covered. Here, in a concluding instalment, Gen. Hatcher discusses the various types of powder used by handloaders, how the speed of their burning is controlled, and why some powders burn faster than others.*—ED.

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ANOTHER METHOD of using guncotton to make explosives besides mixing it with nitroglycerin was finally evolved, and this consists in dissolving the guncotton in a mixture of ether and alcohol, thus forming a mass called a colloid, having very much the same consistency as melted glue. This colloid is squeezed out into tubes like macaroni, and these tubes are cut into short lengths, after which the ether and alcohol used to dissolve the guncotton are evaporated off, leaving a hard substance something like dried glue. This dried-out colloid of guncotton is what most modern smokeless powders are made of. Such powders are the old Government Pyro used in 1906 for Springfield cartridges, and the modern DuPont powders of the improved Military Rifle or IMR series.

Such smokeless powders are made in the form of small cylindrical grains with a hole running through the center. In other words, they are like little sections cut from a fine tube of macaroni. The object of having the hole through the center of the powder grain is to control the rate of burning so as to hold up the pressure of the powder as long as possible.

The problem with getting extremely high velocity in a gun is due to the fact that when the powder in the cartridge is ignited it turns into gas, and this gas, confined in the small space of the cartridge case, creates a very high pressure which pushes the bullet along the bore of the gun. But as soon as the bullet starts to move along the bore, that leaves more space for the gas to occupy, hence there is less pressure, and the effect of the powder would rapidly fall off to nothing unless special means were taken to keep the pressure up.

One of these special means is the perforation of the powder grain, which causes it to have a larger burning surface as the combustion proceeds. This is because the powder flash ignites the inside of the tube as well as the outside. As the grain burns, the outside surface gets smaller, hence the rate of evolution of gas would tend to decrease. However, this is balanced by the fact that as the inside of the grain burns, the inside surface gets larger. Therefore, there is a larger surface on the inside for the evolution of gas as the combustion proceeds.

The balance between these two surfaces can be controlled by the ratio of the inside diameter to the outside diameter in the finished grain of powder. In cannon powders, with their larger grains, there are usually seven perforations instead of one.

Another method of controlling the burning of the powder and making it more progressive, that is, making it hold up its pressure longer during the travel of the bullet, is by coating the powder with a substance which makes it burn slowly at first. As this coating burns off the outside of the powder, the speed of combustion increases. These progressive-burning powders tend to give a more uniformly distributed pressure, sustained longer during the travel of the bullet. Moreover, the maximum pressure is not so high because instead of being exerted all at once, the pressure is spread out more evenly during the entire travel of the bullet. The DuPont Improved Military Rifle powders such as numbers 4227, 4198, 3031, 4320 and 4064 are progressive powders.

Like black powder, smokeless powders are also controlled as to their speed of burning by the grain size. Powders with very fine grains burn up in a hurry and therefore are particularly suited for short-barrel weapons. Powders with very large grains take longer to burn up, and are adapted to long-barrel weapons such as cannon.

For any given size of gun, such as the caliber .30 rifle, there is a granulation of powder that is suitable, and a larger or smaller size will either give too high pressures or will not burn up completely before leaving the barrel.

However, in the Springfield rifle the grains may be either long and slender or short and fat. In general, better results are obtained if the grains are long and slender, because this leaves larger air spaces between them for the priming flame to penetrate, and thus better ignition is obtained.

Besides the nitrocellulose powders described above, there are some military rifle powders containing a certain proportion of nitroglycerin as well as nitrocellulose. The old W-A (Whistler Aspinwall) powder used in the early Krag cartridges was an example. It contained about 30 percent or more of nitroglycerin and was a good powder except that it was very erosive on the barrels, as nitroglycerin burns at a higher temperature than nitrocellulose powder.

Hercules HiVel is a modern nitroglycerin powder which has gained a great reputation for extreme accuracy in match loads. Bullseye is a nitroglycerin pistol powder which is still used by the Government in loading pistol cartridges. Two types of pistol powder are standard with the Government, one a nitroglycerin powder and the other a nitrocellulose powder. The nitrocellulose powder that the Government uses is DuPont No. 5066.

These pistol powders, unlike the rifle powder above mentioned, do not have tubular grains. Instead they are in the form of very fine, thin wafers or flakes, a shape which makes them burn with greater rapidity, which is necessary for them to be consumed in short-barrel weapons.

The rate of burning of the powders above described, such as DuPont and the Hercules HiVel, depends not only upon the grain size but also upon the resistance that the bullet offers to being moved. If any of these powders are ignited in the open air they will burn slowly, the same as a pile of grains of celluloid, and there will be no explosion. On the other hand, when they are ignited in a gun the first grains burn and give off hot gases, and these hot gases in turn accelerate the burning of the other grains. The more the gases are confined, the hotter they are and the faster the combustion of the remaining powder will be. Thus with a heavy bullet or with the cartridge case full of powder, the combustion is more rapid than it is with a light bullet or with the cartridge case only partly filled with powder.

There are some powders which must burn with a large air space in the case, and a light bullet. These are powders used for reduced loads. There are also powders which must burn with no resistance at all in the form of a bullet to hold back the gases. This is the case with powder used in blank cartridges, where there is no bullet but only a paper wad. This powder must burn with extreme rapidity under low pressure. The powder most used for this purpose is called "E. C. Blank Fire Powder".

We have seen that guncotton burns with extreme rapidity. If we mix it with nitroglycerin it burns more slowly. If we should compress it, or mix it up with glue, or do anything to take away its fluffy consistency, it would burn more slowly.

Following these principles, blank powder can be made by taking nitrocellulose or some other nitro compound such as nitrolignin (nitrated wood) in combination with other suitable substances, and dampening the fluffy material with gum water, then rolling it into little balls or grains. Thus it is almost guncotton, but the violence of its burning is reduced by the fact that its particles are glued together by the gum water solution. Blank-cartridges powder cannot be used with a bullet or charge of shot in the cartridge. The added resistance is liable to cause it to detonate and blow the gun to pieces.

A blank-cartridge powder very commonly used in this country is called "E. C." (from the originators, the "Explosives Company"), and there is also a shotgun powder by this same name. I once had an acquaintance who got hold of some of this E. C. blank-cartridge powder, and being acquainted with E. C. shotgun powder he decided that it was the same thing and loaded up some shot shells with it. The first one he fired lifted the side neatly out of one barrel of his L. C. Smith hammerless shotgun.

"I told you not to bring your wife along!"

Powder for reduced loads is midway between blank-fire powder and the regular rifle powder. It has to be fast burning because it cannot depend much upon the resistance of the bullet. It is used in small charges in big cartridge cases with lots of air space, and it is also used with very light bullets.

Shotgun powders differ considerably from rifle powders. The shotgun is distinguished from the rifle not only in not having a rifled bore, but also in being usually of considerably greater caliber. To produce a weapon easy to handle, it is necessary to make the forward portion of the barrel very light. Therefore, there must be but little pressure except near the breech. Furthermore, distribution of the shot in a uniform pattern seems to require that comparatively little pressure be exerted on the shot in the forward portion of the barrel. For these reasons shotgun powders must burn more rapidly than rifle powder, and therefore there must be more surface exposed.

Shotgun powders are of two kinds, dense and bulk powders. The advantage of dense powder is that it leaves very little solid residue when burned and is consequently free from smoke; it also leaves very little residue in the bore. Moreover, it is very little affected by moisture and gives very light recoil.

Bulk powders are much lighter and much more bulky than dense powders. In fact, the term "bulk" means that the powder can be loaded bulk for bulk with black powder. In other words, you can load this powder by measure, and can use the same measure for loading it that you would for black powder.

The first successful bulk powder was known as Schultze, after the inventor, Captain E. Schultze of the Prussian Artillery. This powder was made from nitrolignin, or nitrated wood, mixed with the nitrates of barium and potassium.

Most of the modern bulk shotgun powders do not use nitrolignin but use nitrocellulose instead. One of the best known is DuPont's Shotgun Smokeless Powder, which is a straight nitrocellulose composition throughout.

Besides the good old-fashioned black powder, and the smokeless powders above mentioned, there was a type known as semismokeless, which is a mixture of guncotton and black powder. Lesmok powder, once so much used in caliber .22 cartridges, was of this type. The semismokeless powders were extremely accurate in caliber .22 loads, and while they gave much more smoke and fouling than the smokeless powders, the fouling was of such a nature that it did not cake or harden in the barrel, and firing did not have to be interrupted for cleaning. One of the greatest disadvantages of Lesmok was its extreme danger in manufacture and this caused its discontinuance several years ago.

The great difference between black powder and smokeless powder is that in the case of black powder more than half the products of combustion (about 55.71 percent) are solids. These solids are principally potassium carbonate, potassium sulphate and potassium sulphide, and when they are ejected from the gun along with the powder gases they form a dense white smoke. A large amount of solid material is also deposited on the inside of the gun barrel so that with black powder a heavy fouling accumulates which necessitates cleaning after each ten or more shots.

With smokeless powder, on the other hand, the products of combustion are almost entirely gases and water vapor, so that there is little or no smoke and little or no deposit in the gun barrel.

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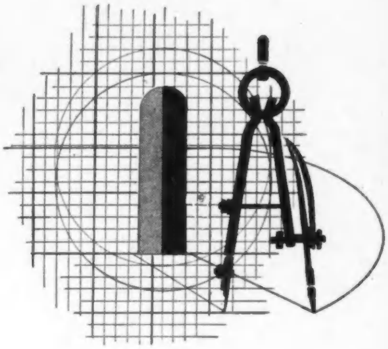
NEXT MONTH: *When hunters hear the name Bell, they think instantly of one of the few men ever to bag more than 1,000 elephants. Ivory hunter extraordinary and Grand Old Man of African shooting, W. D. M. Bell has written a book, "Karamojo Safari," which is being released this month. From it, the Rifleman gives its readers a long chapter . . . an advance look at one of the significant releases of '49. Also for next month: smokeless powders in words and pictures; Nash Buckingham on the myth of the all-purpose shotgun; loads for the .250 Savage; a hunter on the use of a scope in hunting whitetails.*

the bullet's flight



DO FORMULAS FRIGHTEN YOU? IF YOU REMEMBER HIGH-SCHOOL ALGEBRA, HERE'S YOUR MEAT. THE LAST OF THREE EASY-TO-UNDERSTAND ARTICLES ON BALLISTICS

BY PEYTON AUTRY

IT CAN BE SHOWN that, properly explored, a wealth of quite useful data can be compiled on various loads and bullet combinations. Not only that, much useful data can be compiled on factory loads working from the simplified velocity-versus-range curves which were described in Part II. Muzzle velocity, velocity at range, energy, trajectory and drag coefficients of various shape for bullets and other useful data may be determined. For example, the drag coefficient of a specific bullet shape may be applied to bullets of any weight or caliber as long as the proportion of the bullet is maintained, since the shape and therefore the drag coefficient K is independent of size.

In Fig. 11 is shown the basic equipment needed to conduct ballistic firing tests, which is the same equipment used by any bench-rest shooter. The better the rest, the better will be the results. A good target scope, as well as a target-weight rifle, is a great asset. The line of sight of the scope should be adjusted so that it is parallel to the axis of the bore by actually shooting the rifle from a rest at a target near the muzzle of the gun rather than by boresighting. First, measure as closely as possible the distance between the center of the scope tube and the center of the barrel at the front mount. Then, with the rifle on a bench rest, fire at a small target which is a few yards from the muzzle. The target should be as close, within the bounds of reason, as possible in focusing the scope. With crosshairs on the target, adjust the scope between shots until the point of impact is the same distance below the center of the target as the distance measured between the centers of the scope tube and barrel. Several shots should be fired at close range.

The distance between the line of sight and the bore axis is shown by **A** on Fig. 11. This distance will be used in further tests to measure the actual drop of the bullet. In Fig. 11 it is obvious that the true drop at any given range is the distance of the point of impact below the line of sight **C** minus the measured distance **A**. The test targets should, of course, be fired at known exact ranges. The measurement on targets including distance **A** should be converted from inches to feet when the calculations are made. For example, 2.00 inches would be .166 foot and 3.00 inches would be .250 foot.

Let us take an example and work it through. Assume that sectional density is 1500. For example, a .22-caliber bullet of 57 grains would have a sectional density of 1500 grains per square inch. Targets for testing are fired at 100 yards, 200 yards, 300 yards and 400 yards.

The time for the bullet to travel from the muzzle to a given range is obviously also the same time for the bullet to fall through the true drop distance.

In Part I we showed that the distance **d** dropped by an object in a given time, **T**, is

$$d = \tfrac{1}{2}gT^2$$

Then solving for **T**

$$T = \sqrt{\frac{d}{\tfrac{1}{2}g}} = \sqrt{\frac{2d}{g}}$$

We can apply this simple relation in Table II to find the velocity. Going to Table II, column 1 is the true distance of bullet drop on the target (or **C** minus **A** on Fig. 11) expressed in feet instead of inches. Column 2 is the range location of each target every 100 yards, expressed also in feet. Column 3 is the elapsed time from the firing point to each target as calculated by the above expression. Column 4 is the time for the bullet to travel each of the 100-yard segments of range. For example, the first one is obviously the same as the first figure in column 3 and so on down the table. Column 5 is simply the distance between targets, or 100 yards (300 feet) each. The average velocity between the targets is then obviously the time in column 4 divided into 300 feet (column 5.) For example, the average velocity between 100 and 200 yards in Table II is .128 seconds (column 4) divided into 300 feet (column 5). The average velocity is 2340 feet per second. The range at which the bullet attains that velocity occurs approximately halfway between 100 and 200 yards—or

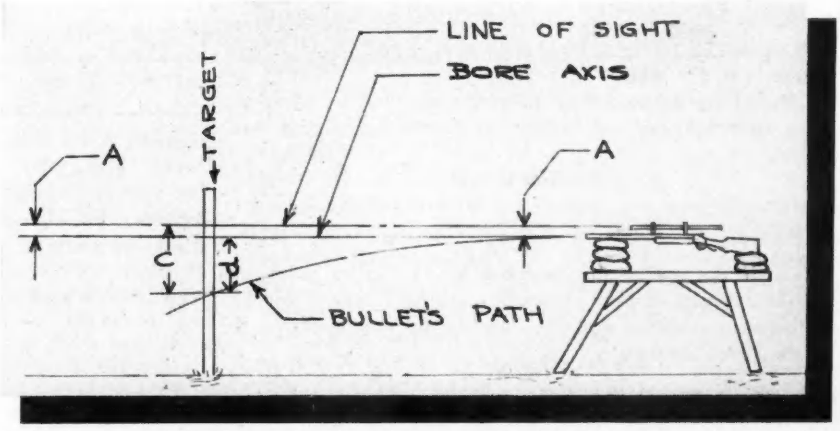


Fig. 11: Diagram of rifle and target shows how the true drop of a bullet (d) is obtained by subtracting distance between line of sight and bore axis from distance between bullet impact and line of sight

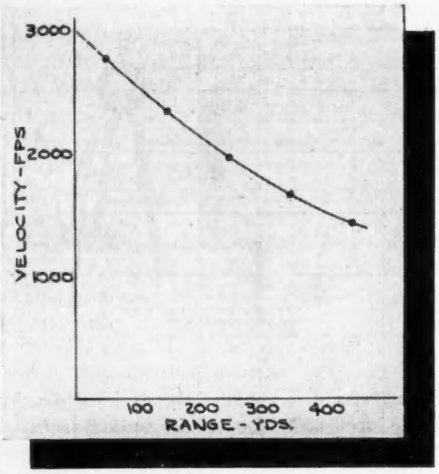


Fig. 12: Knowing bullet drop, average velocity for each 100 yards of range can be computed and plotted

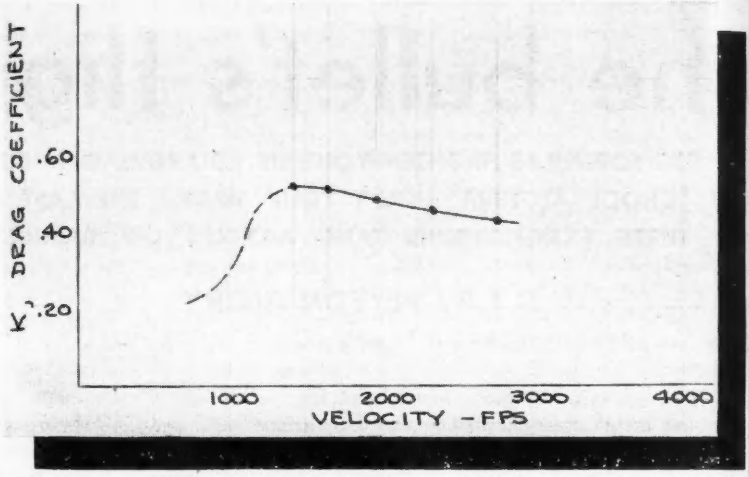


Fig. 13: Drag coefficients for a bullet of specific shape, which vary with changes in velocity, may be computed if the distance the bullet drops over different ranges is known

150 yards. A graph of velocity with range can be plotted such as Fig. 12.

Then the shooter has determined the velocity of the load tested. Now, if he wants to determine the drag coefficient **K** of the shape of bullet for use in calculating the ballistics of the same shape of bullet in other calibers, he can proceed as follows. Using the example in Table II, suppose the bullet has a sectional density of 1500 grains per square inch. Our aim is to plot the value of **K** for various velocities, giving a curve such as Fig. 2 for the bullet we have tested. In Part I we said that

$$V_F = V_0 - at$$

where V_F is the final velocity after the bullet has travelled a given distance and V_0 is the initial or beginning velocity of the bullet when it started over that given distance. The time **t** is that required by the bullet to travel over the given distance. The retardation of the bullet over the given distance is **a** and is expressed in feet per second. If we solve for **a** in the equation, it becomes

$$a = \frac{V_0 - V_F}{t}$$

Then from Fig. 12 it is possible to find the retardation over any segment of the range. For example, in the first 100 yards the velocity drops from 3000 feet per second at the muzzle to 2550 f.p.s at 100 yards. The time from Table II is .108 seconds. The retardation or deceleration is

$$a = \frac{3000 - 2550}{.108} = 4160 \text{ feet per second per second}$$

In Part I we also said that the retardation (**a**) in terms of drag coefficient, sectional density, air density and velocity was

$$a = \frac{1560\, K \frac{p}{2} V^2}{w/A}$$

Then, if the test results compiled for the bullet having a sectional density of 1500 are used from Fig. 12 and Table II to find the retardation **a**, we can solve for the drag coefficient **K** in the above equation.

$$K = \frac{(w/A)\ a}{1560 \frac{p}{2} V^2}$$

The term $\frac{p}{2}$ can further condense the equation if the tests are near sea level (non-mountainous) at standard atmosphere. The value of $\frac{p}{2}$ is .001189 under these conditions, therefore the equation becomes

$$K = \frac{(w/A)a}{1.86\ V^2}$$

The velocity in the equation is that which is read directly from Fig. 12 for any range.

In plotting a curve of **K** versus velocity, the velocity at 50, 150, 250, 350, 450 yards, from Fig. 12, should be used in the equation. The retardation **a** should be between 0 and 100 yards, 200 and 300 yards, 300 and 400 yards, etc., to use with the average velocity at the midway points of each 100-yard segment. For example, here is the way to solve for a point for the **K**-versus-velocity curve we want to plot. From Fig. 12 at 50 yards (the midway point) the velocity is 2770 f.p.s. The retardation **a** we have already calculated as 4160 feet per second for the first 100 yards. Then **K** for a 2770 f.p.s. velocity is

$$K = \frac{(w/A)a}{1.86\ V^2}$$

$$K = \frac{1500 \times 4160}{1.86 \times 2770^2} = .44$$

TABLE II

(1) $d = C - A$ (Ft.)	(2) Range (Ft.)	(3) $T = \sqrt{\frac{2d}{g}}$ (Sec.)	(4) t (Sec.)	(5) r (Ft.)	(6) av. $V = \frac{r}{t}$
.188	300	.108	.108	300	2770
.900	600	.236	.128	300	2340
2.43	900	.388	.152	300	1970
5.20	1200	.568	.180	300	1660
9.72	1500	.778	.210	300	1425

Continuing this for each 100-yard segment of Fig. 12 a curve such as Fig. 13 may be plotted for the bullet shape used in the range tests.

Now that the steps have been outlined for interpreting range testing data for the determination of velocity and drag coefficient, it is well to point out some important factors and considerations which must be made.

In Table II the reader may have noted that seemingly small errors in the drop of the bullet in column 1 will result in rather large 'errors' in the average velocity in column 6. The definition of errors in average velocity is not one of errors in the physical principles or basic theory, but of the error which may result from rifle accuracy, bench-rest position, variation of loading and, last but not least, the skill of the shooter. At this point, it may be said that a machine rest will be of great aid—if it is capable of better accuracy than that of a good shooter at a good bench rest. The basic principles which we have studied previously actually do show that a small change in bullet drop makes for quite a large change in velocity—and vice versa—particularly for the first 200 yards. The relation between velocity and drop of the bullet is the reason the human element must be removed and accuracy as a whole must be as good as possible.

So far, Table II has presumed one shot at each target of 100 yards, 200 yards, 300 yards, etc. What should be done in actual practice, however, is to fire approximately ten shots at each target as near the same time of day as possible. Better yet, it is ideal to have targets (long enough to 'catch' long drops of the bullet at long ranges) mounted at each range so that they are all visible from the bench. Alternate on each target 100, 200, 300, 400, then back to 100, until 5 to 10 shots are carefully fired on each target. The procedure will give best results and is possible since no sighting in is required.

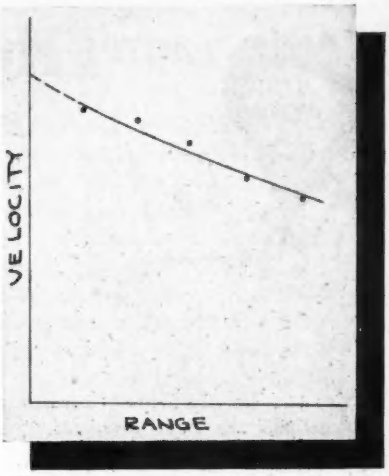


Fig. 14: Average figures for more than one shot do not give smooth curve (as in 12), which must be drawn by interpolation

After shooting, carefully measure on each target the vertical distance from the point of impact to the center of each bullet hole. Subtract distance **A** (Fig. 11) from each distance. Add up the net distances **d** for the particular target and range and divide the sum by the number of shots on the target to get average drop **d** in column 1 of Table II. When the mid-point velocities are computed and entered in column 6, Table II, a velocity-versus-range curve similar to Fig. 12 may be plotted. If the velocity points on the curve do not seem to be so positioned as to give an absolutely smooth curve, the curve may be drawn in by interpolation between the points. Interpolation is illustrated in Fig. 14. Note that the curve is drawn between the points in such a way as to give very nearly the true position of the curve. Note that some points are nearer the curve than others but that those further from the curve are fewer in number, and vice versa. The dotted line shows the extension (or extrapolation) made in all range-versus-velocity curves to obtain the muzzle velocity.

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Tryouts for International Team

On about Tuesday, October 25, 1949, the first American rifle and pistol team to travel to its overseas destination by air will take off from New York City by Pan American Airways—destination Buenos Aires. Team Captain Colonel Paul M. Martin, USA, who learned the free rifle game "the hard way" when the going was even tougher than it is today, will be leading the largest American contingent ever to compete in an overseas world championship. All signs indicate that the team is being selected from the largest number of competitors ever to try for places on the squad. The International Team Committee appointed by President E. O. Swanson has done everything possible to create tryout conditions which will result in the fair selection of a first-class team.

The smallbore rifle and pistol tryouts are being held Labor Day weekend in conjunction with the National Rifle and Pistol Championships, while the fight for places on the free rifle team will come the following week. Camp Dodge, Des Moines, Iowa, will be the scene for the smallbore qualifications the day following the completion of the National Rifle Championships on September 5. The rapid-fire pistol team will be selected during the firing of the pistol nationals at Ft. Sheridan, near Chicago, Ill., September 2, 3, 4, and 5, followed by the slow fire on September 6. The free rifle finals are scheduled September 11-12, at Quantico, Va. They will be limited to twenty-five competitors, all of whom must have their own free rifle equipment. Chairman of the International Team Committee is Major General Julian S. Hatcher, who can be reached at NRA Headquarters.

The team itinerary will be a fascinating one. From New York City, the team will fly to San Juan, Puerto Rico, and from there to Georgetown, British Guiana. The next stop will be Belem, Brazil, arriving just twenty-three hours out of New York. The team will lay over for one day and then take off for Rio de Janeiro with the next stop Buenos Aires. The squad will arrive in time to have approximately a week of practice before the World's Rifle and Pistol Championships competition gets started on November 4th.

The return trip home will be made over an entirely different route via Pan American Grace Airways. The squad will fly across Argentina to Santiago, Chile. From there the team will fly up the Pacific Coast to Lima, Peru, where a one day layover is scheduled. The next hop is to Talara, Ecuador; then Balboa in the Canal Zone; Miami, Florida; and New York City with an expected arrival date of November 17th.

Not including the distance to and from home to New York City, the team members will travel well over 12,000 miles during its trip.

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THE OLD COACH'S PAGE

Every kid in his early teens is familiar with mirage and the way it can make a surface appear wet in the sunlight which in reality is as dry as the fur on a cat's back. Many smallbore shooters, firing their first season out of doors, fail to recognize that heat waves and light on the target range also play tricks upon the eyes which, though not making the target appear wet, does make the contestant look as though he might get better scores if he were to use a lead pipe and hammer to fire cartridges at the target.

LIGHT, MIRAGE AND WIND

Of all the maddening mishaps a shooter experiences, perhaps the most exasperating is that of having his group shift from one place to another on the target. The cause of a shift is usually accounted for in one of many worn-out alibis that are used repeatedly. In many cases the fault lies in the rifle bedding. However, when bedding is checked and found to be in perfect condition, and you still get the group shift, you'd better start checking conditions.

If the group tends to shift either high or low after the rifle barrel has attained normal temperature, then note the light conditions prevailing. As a rule a slight variation in brightness doesn't tend to move your group. A definite change, however, such as clouds passing in front of the sun, as before a storm, changing the conditions from bright to dark, has a decided influence on group shift. The influence is greater in iron-sight shooting than in scope-sight shooting. In most cases the shift will be vertical when light is at fault. So, as a general rule, check light conditions carefully when the group shift is vertical.

When the groups are dispersed from one side to another, the trouble is almost always in a change of wind and conditions. It is very discouraging to the new shooter to see his group shift from the X-ring to the eight ring in a few shots while some other guy scores a possible.

Ninety-five percent of the time the inexperience of the shooter in coping with the wind is the reason for shifting groups. The only rub, and the question the new shooter will ask, is: how fast is the wind blowing and how far will it move a .22 bullet? A common question, probably no shooter on the line will be able to give an exact answer to it. However, he can approximate the wind drift and make an allowance or adjustment for it.

How? Extremely simple. It's just a case of observing surrounding conditions but the shooter must be very much on his toes to catch changes in the wind. He should watch the grass in the vicinity of the target as well as the powder smoke from the rifles on the firing line. The trees in the immediate vicinity of the range also tell a story and should be watched closely. Then of course always keep an eye peeled on the existing mirage, which tells a story in itself. If none of these systems work, then try to dope the wind by feel. This in many cases will work to good advantage, especially when other methods fail. Of course, there are other ways of doping wind that are used by individual shooters, but as a rule if you master the foregoing ways you shouldn't have any more trouble than the other shooters on the line. Just make sure at all times that you're cautious and wide awake to wind change. Then when you have conditions in mind shoot your shots as fast as you can.

The most universal method of wind doping is doping by mirage. It's not a new trick nor is it hard to master. Mirage is merely the heat waves rising from the ground. The waves are carried along with the wind at the same velocity as the wind. They can be seen with the naked eye on a hot day. Mirage is almost always present on a sunny day and sometimes even on overcast days. It is usually seen through the spotting scope, which magnifies the condition and enables you to see it easily. Frequently mirage can be seen with the rifle scope and a shooter can keep tabs on the wind while shooting. If you can see mirage then you can learn to read it.

When the mirage is moving straight up from the ground, it is boiling. It's either boiling or moving from right to left. Note the approximate velocity and direction of the mirage before you shoot. Fire a shot and note where it hits. Check the mirage to see if it's the same. Shoot another shot and, if conditions remain approximately the same, the second shot should hit near the first shot. If it does, then start firing on the sighter under different mirage conditions and find out how much you have to allow for wind for the varying conditions.

With a little practice in mirage doping, you will find scores picking up and gradually learn how much to hold off for varying conditions.

By experimentation, it's been shown that heavy mirage affects the scope more than it does the iron sight. One theory is that the mirage moves the image from where it actually is, while another theory is that mirage has no effect on image movement. Since it's not definitely known what happens under conditions of mirage, a shooter must use his own judgment in shooting when mirage is present. Heavy mirage will blur a sight picture and distort the bull but a shooter will have to find out for himself how much it will distort the sight image. Mirage gets worse as the power of the scope increases.

Just a word of warning about mirage. Be sure you know what kind of condition you're sighted in for when you're on your record string. Check direction of mirage with some range flag or similar device. If you see a change of direction in mirage and don't notice any other change in conditions, then be sure to check your shot on sighter. Very often the mirage change is not apparent and you end up with a wide eight. When checking mirage, know the location of the mirage. You may find that the mirage is going one way at the target and another way beyond the target. If you take dope from the mirage beyond the target, then you're going to be out of luck.

When you go from number one bull to number two bull at 100 yards check the mirage at the lower bull to be sure that it's doing the same thing as at top. Many shooters can't figure out why their group shifts from one 100-yard bull to another. If you check mirage only between the target and the firing line, using only the area of the target as a backstop, you may be sure that the mirage is between you and the target.

You do not have to put your scope out of focus to read mirage as many people will tell you. ◆ ◆ ◆

THE SPOTTING SCOPE -- September 1949

The National Trophy Individual and Team Pistol Matches definitely will be held at Fort Sheridan, Ill., on September 5 in conjunction with NRA's National Pistol Championships, September 1-6. . . . Air Force Sergeant Glenn Van Buren, of Carswell Air Base, Fort Worth, Tex., has won the National All-Bore Skeet Championship for the second straight year with a 250 possible . . . defeating a field of 600 at Dallas . . . while Herman Ehler, of Dallas, took the high over-all from Grant Ilseng, of Houston, in a shoot-off. . . . Vic Beresford, active and popular editor of the Wayne County (Mich.) Sportsman and long a leader in the fight against pollution, has been recognized by Governor Williams . . . with an appointment to the newly created State Water Resources Committee . . . representing all Michigan sportsman's groups. . . . Duck Stamps will cost two dollars as soon as President Truman signs the Johnson-Thompson Duck Stamp Bill . . . passed by Congress last month. . . . National Guard rifle, carbine and pistol competitive matches, suspended during the war, have been reestablished . . . to include competition within states and Army areas leading to the selection of national winners. . . . NRA is cooperating.

Bill Shadel, former managing editor of THE AMERICAN RIFLEMAN and now a top CBS Washington news commentator, is in Europe covering meetings of the Joint Chiefs of Staff. . . . Clubs and shooters in New Mexico and other southwestern states have a new publicity medium . . . the magazine FLY AND SHELL, which has a steadily growing circulation in that area. . . . Address items for publication to E. B. Mann, 1020 Parkland Pl., Albuquerque, N. M. . . . Ted Wasielewski, guiding light of the fabulous E. 7th St. Wheeler Junior Rifle Club in New York, reported in the RIFLEMAN earlier this year, is looking for additional tenants . . . to help keep his range and youth center going. . . . New York City clubs and shooters who need range space can contact Ted at 343 Prospect Ave. . . . New York State's Conservation Department is the latest to experiment successfully with a camp riflery program . . . with the full 120 boy complement at Camp Letchworth, near Bristol Center, taking part . . . and a bigger, more complete program being lined up for next year.

Minnesota's "great bog" area became the target for 1,000-pound Navy bombs recently in an errand that combined military functions with wildlife habitat restoration . . . as fliers from Wold-Chamberlain Field blasted seven 100-foot craters in the dried-up 3,000-square-mile area to supply the moose herd with water for protection against insect tormentors and also drinking water. . . . Wildlife Management Institute suggests this method may be employed for creating nesting ponds for ducks in other bog areas. . . . The Park County (Wyoming) Sentinel published a story reporting that 79-year-old Camp Perry veteran and hunter extraordinary, Nathan Paddock, will miss his first hunting trip in 40 years to attend the 2nd Annual National Rifle Association Convention. . . . NRA President E. O. (Doc) Swanson has won his usual Marine Corps Reserve rifle championship this year . . . but in addition took the pistol individual title, led his pistol team to victory and his rifle squad to third place nationally. . . . University of Maryland's already 'loaded' rifle team will be further strengthened this year . . . with the expected addition of John Kelly, Jr., the Rocky Mountain Regional Champion, and high-scoring Roy Oster, of Llanerch, Pa.

Lois Agee, RIFLEMAN cover girl for August and designer of the slick shooting jacket she modeled, barely missed going to the Atlantic City Miss America contest as Miss Washington, D. C. . . . She was runner-up. . . . The slick shooting plant of the Framingham (Mass.) Sportsmen's Association, only privately owned range within 90 miles of Boston, has been completed . . . with 50 small-bore rifle firing points and provisions for 50-foot junior firing and 25-yard pistol shooting. . . . Junior qualification awards issued in 1949 are running more than twenty-three percent ahead of last year . . . according to NRA's Junior Division . . . while all types of registered tournaments are up a whopping 30 percent. . . . Delegate farthest from home at the NRA Convention at Denver will be Nripen Sarkar, of the South Calcutta (India) Rifle Club. . . . How about your club?

Ray Stann

Regional Championship Results

Harry Reeves, Detroit, Michigan, will retain his National Pistol crown and Donald R. Mercer, Akron, Ohio, will be the new National Rifle Champion if form displayed during the 1949 Regional Championships means anything. With ten of the eleven rifle shoots and nine of the eleven pistol tournaments reported in as this edition of the RIFLEMAN went to press, the two men possessed the high scores.

DONALD R. MERCER

Reeves, firing in the North Central Regional held at Flint, Michigan, July 16-17, turned in a walloping 2627 out of a possible 2700 points to outscore his closest competitor by 24 big markers. Second to Reeves, and a surprise to no one, was ex-champion Joe Benner, who turned in a 2603 in the Middle Atlantic Championship fired at Quantico, Va., July 2-3-4.

Mercer turned in his high rifle score of 3193-245 out of a possible 3200 at the North Central Championship fired at Bristol, Indiana, July 2-3. Peter Romcovitz, W. Newton, Pa., was second high with his 3190-213 fired at Harrisburg, Pa., July 23-24. Present National Champion Arthur Cook (he did not have to qualify) fired in this shoot but did not finish in the money. The National Rifle Championship will be fired in Des Moines, Iowa, early this month. Regional results:

HARRY REEVES

NORTHEASTERN

Rifle—Middlefield, Conn.—July 9-10, 1949

1. I. N. Tekulsky—New York, N. Y.	3173-169
2. A. C. Jackson—Brooklyn, N. Y.	3171-199
3. Ed Cushing—Claremont, N. H.	3161-186
High Woman—Patricia Baldwin, Larchmont, N. Y.	3148-148
High Expert—Stephen Mallner, Glendale, N. Y.	3150-161
High Sharpshooter—J. H. Lantelme, Woodhaven, N. Y.	3154-147
High Marksman—F. M. Bedell, Pleasant Valley, Conn.	3105-110

Pistol—Poughkeepsie, N. Y.—July 2-3-4, 1949

1. T. E. Barrier—Washington, D. C.	2569
2. N. J. Rodeheffer—Washington, D. C.	2537
3. J. R. Herron—Schenectady, N. Y.	2536
High Woman—Alice Matthews, Broomall, Pa.	1657
High Exp.—J. Zuk, Boston, Mass.	2454
High SS.—R. W. Robinson, S. I., N. Y.	2399
High Mk.—M. E. Hinckley, Blue Hill, Me.	2135

MIDDLE ATLANTIC

Rifle—Harrisburg, Penn.—July 23-24, 1949

1. Peter Romcovitz—W. Newton, Pa.	3190-213
2. Robert Moore—Claysville, Pa.	3190-222
3. Charles Whipple—New Haven, Conn.	3186-227
High Woman—Adelaide P. McCord, Sewickley, Pa.	3182-201
High Expert—Lois Berge, East Orange, N. J.	3161-181
High Sharpshooter—Elsie Lewis, New York, N. Y.	3179-116
High Marksman—George Pfieffer, Dallastown, Pa.	3141-145

Pistol—Quantico, Va.—July 2-3-4, 1949

1. H. L. Benner—Fort Knox, Ky.	2603
2. J. A. Jagiello—Quantico, Va.	2566
3. P. C. Roettinger—Newington, Conn.	2553
.45-Cal. Agg.—H. L. Benner, Fort Knox, Ky.	864
High Woman—Maria Huselman, Baltimore, Md.	1564
High Exp.—L. G. Vause, Ft. Bragg, N. C.	2538
High SS.—B. H. Hagan, Quantico, Va.	2386
High Mk.—R. T. Van Keuren, Arlington, Tex.	2380

SOUTHEASTERN

Rifle—Chattanooga, Tenn.—August 13-14, 1949

Not reported.

Pistol—Jacksonville, Fla.—June 24-25-26, 1949

1. Jerry Fontanella—Miami Beach, Fla.	2535
2. Walter Fletcher—Parris Island, S. C.	2532
3. Mark Billing—Quantico, Va.	2532
High Woman—Alice Young, Tampa, Fla.	1607
High Exp.—A. M. Acorta, Jacksonville, Fla.	2457
High SS.—H. B. Reed, Parris Island, S. C.	2385
High Mk.—Mrs. Foster Ingalls, Hollendale, Fla.	2267

NORTH CENTRAL

Rifle—Bristol, Ind.—July 2-3, 1949

1. Donald R. Mercer—Akron, Ohio	3193-245
2. Robert Rarick—Dayton, Ohio	3193-203
3. William Schaad—Ashland, Ohio	3189-214
High Woman—Neva Seagley, Topeka, Kan.	3163-171
High Expert—Edwin Tugleright, Buchanan, Mich.	3176-175
High Sharpshooter—David Yates, Dearborn, Mich.	3159-158
High Marksman—Lester Staley, Sidney, Ohio	3147-151

Pistol—Flint, Mich.—July 16-17, 1949

1. Harry Reeves—Detroit, Mich.	2627
2. Alfred Hemming—Detroit, Mich.	2548
3. Charles Logie—Grand Rapids, Mich.	2546
High Woman—Grace LaLonde, Detroit, Mich.	1467
High Exp.—Dan Cherubini, Columbus, Ohio	2448
High SS.—Andrew Foote, Mt. Clemens, Mich.	2344
High Mk.—Edward Masser, Toledo, Ohio	2229

MIDWESTERN

Rifle—Des Moines, Ia.—July 25-26, 1949

1. Ralph Travis—Waterloo, Ia.	3183-205
2. Klye Snowhill—Quincy, Ill.	3180-205
3. John Moschkau—Waterloo, Ia.	3178-193
High Woman—Ruth Dorian, Kansas City, Mo.	3151
High Expert——Joe L. Bennett, Des Plaines, Ill.	3175-185
High Sharpshooter—Dixon Herman, Omaha, Neb.	3151
High Marksman—Fred Melander, Chicago, Ill.	3128

Pistol—Davenport, Ia.—July 22-23-24, 1949

1. Richard Stickley—South Bend, Ind.	2545
2. Paul Spavor—St. Louis, Mo.	2532
3. Wayne Welty—Lincoln, Neb.	2501
High Woman—Hazel Allstot, Mason City, Ia.	1428
High Exp.—Richard Stickley, South Bend, Ind.	2474
High SS.—Lennox Gordon, Pittsburgh, Pa.	2312
High Mk.—L. J. Skocpol, Crete, Neb.	2226

SOUTHWESTERN

Rifle—Waco, Tex.—June 25-26, 1949

1. R. E. McMains—Dallas, Tex.	3178-193
2. H. T. White—Dallas, Tex.	3175-185
3. G. R. Whittington—Amarillo, Tex.	3175-190
High Woman—Edith Reuter, Houston, Tex.	3174-169
High Expert—R. L. Sargent, Houston, Tex.	3168-180
High Sharpshooter—W. A. Campbell, Bloomington, Ill.	3165-178
High Marksman—B. L. Cook, Corsicana, Tex.	3139-135

Pistol—Dallas, Texas—July 2-3-4, 1949

1. William Toney—Kingsville, Tex.	2563
2. Jesse Woody—Stanton, Tex.	2542
3. Tom Park—Dallas, Tex.	2534

High Woman—Mrs. Katheryn McInnis, Shreveport, La.	1554
High Exp.—Charles Giglio, Shreveport, La.	2520
High SS.—Harold Bragg, Little Rock, Ark.	2431
High Mk.—Otto Ludwig, Austin, Tex.	2365

ROCKY MOUNTAIN

Rifle—Denver, Colo.—June 25-26, 1949

1. John T. Kelly, Jr.—Fort Worth, Tex.	3181-202
2. R. F. Hanson, Lowry Field, Colo.	3170-199
3. W. R. Keplinger—Steamboat Springs, Colo.	3169-173
High Woman—Martha Zietlow, Denver, Colo.	3152-144
High Expert—R. F. Hanson, Lowry Field, Colo.	3170-199
High Sharpshooter—W. R. Kiplinger, Steamboat Springs, Colo.	3169-173
High Marksman—E. C. Perkins, Loveland, Colo.	3164-163

Pistol—Denver, Colo.—July 8-9-10, 1949

1. E. L. Franklin—Albuquerque, N. M.	2526
2. G. E. Irwin—Los Alamos, N. M.	2478
3. R. B. Larsen—Albuquerque, N. M.	2467
High Woman—Gladys Baxter, Denver, Colo.	1536
High Exp.—G. E. Irwin, Los Almos, N. M.	2478
High SS.—E. C. Bethea, Denver, Colo.	2375
High Mk.—M. A. Murphy, Los Alamos, N. M.	2285

NORTHWESTERN

Rifle—Anaconda, Mont.—July 2-3, 1949

1. Robert Sinclaire—Palm Beach, Fla.	3173
2. Fred Dinkin—Alhambra, Calif.	3172
3. Gladys Rising—Compton, Calif.	3171-190
High Woman—Gladys Rising, Compton, Calif.	3171-190
High Expert—June E. Purcell, Boise, Idaho	3156
High Sharpshooter—Richard Dodge, Boise, Idaho	3141
High Marksman—Henry Hignight, Dillon, Mont.	3142

Pistol—Anaconda, Mont.—July 16-17, 1949

1. John Steele—Seattle, Wash.	2447
2. John Forman—Grasse Ile, Mich.	2432
3. Russell Niblock—Vancouver, Wash.	2427
High Woman—Mrs. Alice Bush, St. Vincent, Minn.	1589
High Exp.—Russell Niblock, Vancouver, Wash.	2427
High SS.—Gordon Schmidt, Great Falls, Mont.	2370
High Mk.—Donald Lassila, Butte, Mont.	2191

FAR SOUTHWESTERN

Rifle—Phoenix, Ariz.—June 4-5, 1949

1. Charles Cornish—Los Angeles, Calif.	3172-217
2. Otto Marckmann—Pasadena, Calif.	3170-190
3. Dick Burkhart—Redondo Beach, Calif.	3157-171
High Woman—Elma Cornish, Los Angeles, Calif.	3150-168
High Expert—D. P. Carapellese, Phoenix, Ariz.	3154-167
High Sharpshooter—W. S. Hine, Phoenix, Ariz.	3128-132
High Marksman—Charles De Barr, Phoenix, Ariz.	3150-155

Pistol—Prescott, Ariz.—August 12-13-14, 1949

Not reported.

NORTH PACIFIC

Rifle—Portland, Ore.—August 6-7, 1949

1. Stuart Edmonds—Portland, Ore.	3182-203
2. C. L. Wood—Wenatchee, Ore.	3182-201
3. Leslie St. Clair—Portland, Ore.	3181-193
High Woman—Alice H. Bull, Seattle, Wash.	3169-177
High Expert—Dick K. Sheldon, Portland, Ore.	3176-199
High Sharpshooter—Alva Laurent, Renton, Wash.	3154-141
High Marksman—Homer Morris, Enterprise, Ore.	3143-144

Pistol—Seattle, Wash.—July 30-31, 1949

1. Ed Walmsley—Seattle, Wash.	2543
2. Ted Aueana—Honolulu, T. H.	2512
3. E. O'Dell—Raymond, Wash.	2510
High Woman—Edith Buchanan, Raymond, Wash.	1526
High Exp.—Joe Gibault, Sidney, B. C., Can.	2462
High SS.—Clifford Pratt, USAF	2298
High Mk.—J. W. Simpson, San Francisco, Calif.	2208

SOUTH PACIFIC

Rifle—Los Angeles, Calif.—July 16-17, 1949

1. Robert Perkins—Fresno, Calif.	3180-202
2. O. B. Brown—San Gabriel, Calif.	3179-188
3. Emery Renard—Tulare, Calif.	3171-180
High Woman—Elinor Bell, Los Angeles, Calif.	3165-171
High Expert—Emery Renaud, Tulare, Calif.	3171-180
High Sharpshooter—H. E. Dilly, Mercedes, Calif.	3142-147
High Marksman—Lester Jeffrey, Fresno, Calif.	3171-170

Pistol—Bakersfield, Calif.—August 19-20-21, 1949

Not reported.

FOR CALIFORNIA RIFLE SHOOTERS

Scores fired in the smallbore rifle tounament held May 15, 1949, at Sacramento, Calif., were not reported to the National Rifle Association as required by the NRA registered tournament agreement. Because the scores were not filed, it has been necessary to disregard them completely for NRA classification. Shooters who competed in the tournament were notified that the scores fired were not made part of their permanent classification record.

NRA regulations require that registration and entry cards showing scores fired in registered tournaments be forwarded to NRA headquarters within ten days. The regulations are necessary in order to keep classification records up to date. Waiting for unreported records would throw the system months behind as scores must be posted chronologically. Therefore, as in the above case, when tournament sponsors fail to comply with the regulations, the unreported scores must be ignored for classification purposes.

DCM NOTES

The processing of purchase requests for M1903, caliber .30 (Springfield) unserviceable rifles is continuing. The great majority of requests for M1903 unserviceable rifles received in October, 1948, have been forwarded to arsenals, and it is expected that sufficient additional M1903 rifles will eventually be made available by the Ordnance Department, to fill the remaining several thousand orders in the office of the DCM.

The supply of M1917 rifles has become exhausted and it is not expected that any more will be available.

Letters are being sent to all NRA members giving an explanation of the status of their orders as indicated above.

POLICE SPONSOR JUNIORS

On the side of law and order in a New England town is the Arlington (Mass.) Junior Rifle Club.

During the war, Arlington had an auxiliary police unit of some 300 men, trained for the protection of the community. The men in this unit, many from business and professional ranks, volunteered and served faithfully while the emergency lasted. When the war was over, at the suggestion of the Chief of Police, Archie F. Bullock, the group reorganized and formed a corporation. The corporation in turn then sponsored youth activities under the name of the Arlington Youth Association. Approximately a thousand boys and girls of high school and junior high school age are members of the AYA. Their activities include a weekly dance, two baseball leagues of eight teams each, a magic class, hockey club—and the very successful rifle club.

The rifle shooters meet weekly at police headquarters. Originally organized with fifty boys and girls, the membership has grown to one hundred and seven. 34 club members are qualified as Pro-Marksman, 23 as Marksman, 6 as Marksman First Class, 22 as Sharpshooters, and 2—Sarkis Sartarian and Richard Barker, have reached the top as NRA Junior Distinguished Rifleman. Several matches have been fired with other nearby junior rifle clubs and a more extensive competitive program is planned.

Officer Charles Scannell of the regular police department, assigned as co-ordinator of the Auxiliary Police, is highly enthusiastic about the rifle club program.

MEMBERS, DIRECTORS MEET

The Annual Meeting of Members of the National Rifle Association for the election of Directors and to conduct such other business which may be properly presented, as provided in the by-laws, will be held in the Shirley-Savoy Hotel, Denver, Colorado, on Wednesday, Otober 19, 1949, at 9:30 a.m. All NRA members have the privilege of the floor. The right to vote is limited to Life and Endowment Members, Benefactors and Patrons.

The Annual Meeting of the NRA Board of Directors will be held in the Shirley-Savoy Hotel, Denver, Colorado, Friday, October 21, 1949, at 9:30 a.m., as provided in the by-laws of the Association. The purpose of this meeting is the election of officers for the ensuing year, and the consideration of such other business as may properly come before the board.

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SISK .22 Bullets, 35 to 41 gr. per 100	2.25
Litschert 10 to 20X Target Scope	49.95
8X 7/8" Spot Shot Attachment for G4	9.00
LITSCHERT 8X with G4 Weaver	18.50
6X VM Attachment ($17.50) and J2.5	40.00
HILL Ring Mts. for light .22 S.S. rifles	10.00
2½X LEUPOLD Pioneer ($40) and Mt.	60.00
24X UNERTL Prismatic Spotting Scope	80.00
30X DAVIDSON Mark 245 Prismatic Spotter	84.50
M245 Stand, $15.75; extra Eyepieces 15-40X	15.00
PACHMAYR Lo-Swing scope mount	20.00
Clear Sight Scope Caps and leather lens covers	
Power-Pac Shot Control for single bbls.	18.50
WEAVER Shotgun Choke and any 2 tubes	10.25
Weaver KI Shotgun Scope	34.00
Takedown Shotgun Case, buckled, sheepskin	10.00
M&G Fast Action Safety, $2.50; CROWE	2.00
MILL-ROSE All Gauge Jointed shotgun rod	1.50
MERSHON Deluxe White Line Recoil Pads	3.50
PACHMAYR 4-gun Handgun Case	19.75
WISLER 3-gun Bantam Pistol Case	27.95
Sheepskin Holsters, $2; Flat Mats, zippered	3.00
Official Pistol Scales	7.50
Pearl, Ivory, Stag grips plain and carved	(write)
JAEGER Strong QD Swivels, 1" & 1¼", set	3.75
Leather Slings; 1" carry, $1.25; Military	2.50
K&K Short Sling ($1.50) and KING Kuff	5.00
KIPPS & KING Deluxe Shooting Mats	11.00
WISLER Kit 22, $19.95; Kit 30	27.00
KOPLIN Rifle & scope Case, strap & zipper	12.00
Buckled end & strap, $11; luggage handle	9.50
Full length rubberized Gun Cover, tipped	2.00
4X HENSOLDT Dialytan Scope & Cap	77.00
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COMING EVENTS

Regional Championship Tournaments (Class A) and State or Division Championships (Class B) only are listed below. All other NRA Registered Tournaments are listed in a printed schedule that will be sent to any shooter upon request. Send your request by letter or penny postcard to the National Rifle Association, Competitions Section, 1600 Rhode Island Avenue, N. W., Washington 6, D. C.

Tournaments requiring advance entries are indicated by (Adv.). Tournaments limiting the number of entries that can be accepted are indicated by (Ltd.).

Always write to the tournament sponsor for a program in advance of any Registered Tournament you plan to attend. It is your assurance that you will know all of the details and the tournament conditions.

SEPTEMBER

10-11 (B) CALIFORNIA—Bay District Rifle Tournament at Richmond, California. Chilton DeWitt, 3701 Lincoln Avenue, Oakland 2, California (Adv-Ltd)

10-11 (B) VERMONT—Vermont State Small Bore Rifle Tournament at Burlington, Vermont. Miss Pauline B. Cadieux, 410 North Street, Burlington, Vermont (Adv)

10-11 (B) NEW JERSEY—11th Annual New Jersey State Pistol Championship at Teaneck, N. J. Frank Svec, Box 42, Leonia, New Jersey (Adv-Ltd)

10-11 (B) NEBRASKA—Nebraska State Rifle Tournament at Grand Island, Nebraska. Harold H. Buis, 1312 North 35th Street, Omaha, 3 Nebraska (Adv)

11 (B) IOWA—Iowa State .30 Caliber Rifle Tournament at Moscow, Iowa. Ruth Maurer, Wilton Junction, Iowa (Adv-Ltd)
17-18 (B) NEVADA—Nevada State Small Bore Championship at Boulder City, Nevada. Mrs. Dorothy D. Cox, Box 453, Boulder City, Nevada (Adv-Ltd)
17-18 (B) IOWA—Annual Small Bore Rifle Championsihp at Camp Dodge. J. G. Johnston, 219 West 7th Street, Muscatine, Iowa
18 (B) MONTANA—Montana State .30 Caliber Championship at Fort Harrison, Montana. Marion Heller, Lewistown, Montana (Ltd)
18 (B) VERMONT—Vermont State Big Bore Rifle Tournament at Northfield, Vermont. P. H. Teachout, East Burke, Vermont (Adv)
17-18 (B) NEW YORK—New York State Pistol Championship at Poughkeepsie, New York. Mrs. Martha W. Strahan, 30 Arnold Blvd., Poughkeepsie, N. Y. (Adv-Ltd)
24-25 (B) TEXAS—20th Annual State Pistol Championship at Austin, Texas. Henry Hankey, 823 Harris Avenue, Austin, Texas (Adv)
24-25 (B) FLORIDA—Florida State Pistol Championship at Tampa, Florida. C. A. Brown, P. O. Box 253, Tampa, Florida (Adv-Ltd)
25 (B) UTAH—Utah State Pistol Championship at Salt Lake City, Utah. David P. Sugden, #3 North 7th West Street, Salt Lake City, Utah

OCTOBER

1-2 (B) PENNSYLVANIA—Pennsylvania State Pistol Tournament at Harrisburg, Pennsylvania. F. H. Wells, 3800 Hillcrest Road, Harrisburg, Pennsylvania (Adv-Ltd)
1-2 (B) OHIO—Ohio State Team Small Bore Rifle Tournament at Mt. Gilead, Ohio. John R. Lang, 3498 Meadow Avenue, Cincinnati 11, Ohio (Adv)
1-2 (B) ARIZONA—Arizona State Small Bore Rifle Championship at Phoenix, Arizona. A. Donald Amesbury, 4065 Montecito Avenue, Tucson, Arizona (Adv-Ltd)
1-2 (B) OKLAHOMA—Oil Capitol Fall Small Bore Rifle Tournament at Tulsa, Oklahoma. Matt Dunham, 1708 South Yorktown, Tulsa, Oklahoma (Adv-Ltd)
7-8-9 (B) VIRGINIA—First Annual Marine Corps School Pistol Tournament at Quantico. Lt. Col. W. F. Prickett, Marine Corps Barracks, Quantico, Virginia
8-9 (B) CALIFORNIA—Southern California Small Bore Championship at Santa Barbara, California. W. G. Sainsbury, P. O. Box 153, Santa Barbara, California (Adv-Ltd)
8-9 (B) ARKANSAS—Seventh Annual State Small Bore Rifle Tournament at Little Rock, Arkansas. N. G. Horn, 1200 Ridge Road, Park Hill, North Little Rock, Arkansas (Adv)
15-16 (B) ALABAMA—Alabama State Championship Small Bore Rifle Tournament at Mobile, Alabama. H. W. Passinger, 2014 C North Portier Court, Mobile, Alabama (Adv)
15-16 (B) TEXAS—Ada Zilker Robinson Pistol Tournament at Austin, Texas. Sidney C. Mason, 3600 Bonnie Road, Austin, Texas
15-16 (B) CALIFORNIA—Far Western Small Bore Rifle Championship. Henry C. Wright, 1025 Michigan, Fresno, California
29-30 (B) TEXAS—Capitol City Small Bore Tournament at Austin, Texas. Sidney Mason, 3600 Bonnie Road, Austin, Texas

STOLEN GUNS

S. A. Frontier Colt 45-22. Basketweave drop loop belt, quick draw handtooled flowered holster. Serial # 94539. Sgt. lcl. Robert L. Greenwood, 205th Signal Repair Co., Ft. Lewis, Wash.

Colt .22 target pistol. Serial # 41838-S. Fred Scarlett, % Gambles, Rawlins, Wyoming.

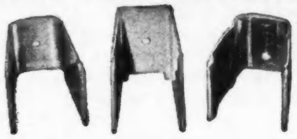
H & R Leatherneck Rifle, Model 151, Serial # 1220. O. L. Wheeler, W. R. Higgins Boat Co., Glasgow, Kentucky.

Colt Lightning .22 caliber, slide action, serial # 88766; Winchester, Model 86 rep., caliber 40-65, serial # 95646; Winchester low side .22 target rifle, serial # 122572; Stevens .22 tubular repeater, serial # 178; Springfield Sporter, Griffin & Howe barrel, serial # 257; Roberts caliber with 330 Weaver Scope, serial # 995591; Belgian Browning 12 gauge over & under, 30" barrels, selective double triggers, auto ejectors, solid rib barrel, serial # 1810; Marlin Custom 12 gauge over and under Skeet gun, 26" barrels, double triggers, engraved receiver, serial # 11024; Aydt System Free Rifle 8X64 mm. cal.; set triggers elaborately engraved and carved. No rear sight, serial # 1022; Malcolm 2½X telescope sight and mounts. Serial # 5728; 12 gauge Savage Auto. 30" barrel, cheek rest stock, beaver tail fore-end. Serial number unknown; 12 gauge Browning (American) Auto. 30" barrel; 12 gauge single shot 30" barrels; 12 gauge Winchester Model 97 Pump, 30" barrel; 12 gauge Winchester pump, 30" rib barrel; 20 gauge H & R single barrel; German 8 mm. Army semi-automatic; .22 caliber H & R single shot rifle; .22 caliber Winchester Model 69 Repeater; Hy-Score air pistol 177 cal. Stolen from Suburban Motors Co., 1521 University Avenue, Middleton, Wisc., Don Thompson, RFD # 3, Lodi, Wisc.

Model 37 Remington Rangemaster Target Rifle, serial # 04203. Ray E. Meyers, New Freedom, Pa.

Model 70 Winchester .30-'06, serial # 63305; Colt .45 Auto (Gov't.), serial # 67973; Savage 23 B .25-20, serial # 38301, with scope; Springfield 12 gauge double, serial # 5100. Gerard Chapman. Please notify Houston, Texas, police.

BULLET POINT PROTECTOR



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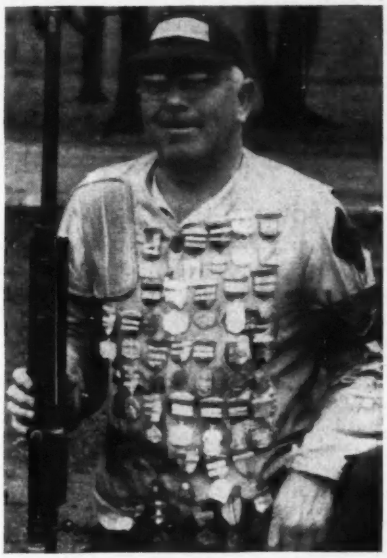
CARL M. BLANCHARD



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4895 POWDER, LOT 27278

Recently I received a 150-pound sealed canister of No. 4895 powder, lot No. 27278. Not having any dope on it, I decided to shoot a series of progressive charges against established loads.

I used the 150-grain M2 bullet and No. 120 primers throughout, except issue loads TW42 were used for sighting. All brass was once fired SL43 with crimp carefully reamed and flash hole smaller than .0805 (No. 46 wire drill wouldn't go). All powder charges were very carefully weighed on a good balance to within two granules of powder. Each load was fired in two different guns, a Remington model 721 and an Enfield. Both rifles were equipped with scopes, had normal headspace, and were in good condition.

I decided to evaluate trajectory at 600 yards on the Burbank range, assuming (perhaps erroneously) that velocities vary in proportion to pressures up to a safe limit. First, I sighted in both scopes to hit a 20-inch gong consistently with the issue loads. Next, I used your 54-grain load of No. 4064 and with 8X glasses observed impact splashes approximately 26 inches high but grouping about 18 to 20 inches in diameter. Then I used your 51.5-grain charge of No. 3031 which shot about 36 inches high, but a very nice (for me) tight group of six to eight inches (elegant load!).

Successively loads of 46, 47, 48, 49, 49½, 50, 50½ and 51 grains of Lot No. 27278 were tried. Man, am I glad I started conservatively!

The load of 46 grains was 12 inches high grouping as tight as any load. The 47-grain load was 36 inches high and still tight. All primers shot so far looked O. K. But, 48 grains shot in the same area as 47 grains, and the group opened up to about 14 inches. Primers were markedly flattened. The 49-grain load opened the group to almost 30 inches, all hitting at least six inches high. Sticking my neck out, I tried a couple of 51-grain loads with the same results. (No, the primers didn't let go, but I don't know why something didn't!)

My conclusions are that lot No. 27278 is hotter'n hell. It would seem that a maximum load would be up to 47½ grains. Incidentally, both guns shot almost identically, even to primer sign. These results started a lot of argument and speculation among some club members. Had my canister of powder dried out? It was tightly sealed upon arrival. Was there dust in it? Not noticeable from the top of the can. Is it just a hot lot or what? Have you heard from any other member using it? Could my Government certified weights be off and not affect the loads with commercial powder? Anyway, I'm treating the stuff with considerable respect (or did I?).—DR. J. WARREN JETT, Los Angeles, Calif.

Answer: Undoubtedly you have a very hot canister of No. 4895 powder. Since lot 27278 does seem to be rather tricky, your letter is being published as a warning to others, who may be using this particular lot of 4895 powder. This lot seems to vary from one canister to another according to other reports we have had in addition to yours. One shooter reports that 36 grains with 55-grain bullets is too much load in his .220 Swift. He had to reduce the charge to 34 grains.—A. H. B.

SAFETY LIMIT FOR HANDLOADS

Even with pressure gage readings within the specified limits, the handloader may find himself in trouble due to soft brass or thin case heads. A long time ago I worried about the safety problem until I found an answer that is so simple and fits all cases (literally) so well that I have adopted it as standard procedure for all my handloading to date.

In firing a rimless cartridge the head extends unsupported around its outside circumference from the bolt face to the mouth of the chamber. Therefore, the heavy brass section in the head of the cartridge case provides the sole support for the internal gas pressure at this point. As long as the pressures are less than enough to start the brass to expand or flow beyond its elastic limits, the load is safe. But remember that the safety point depends upon the strength of the particular cartridge case.

Brass cases may hold or fail anywhere from 40,000 to 80,000 pounds per square inch depending on the metal character. With this in mind, before you try a hot load measure the diameter of the cartridge case at the head just forward of the extractor groove. Load representative cases with a reasonable powder charge and after firing measure the cases. If no increase in diameter is encountered, you know you are on the safe side regardless of how soft the case may be, and you may increase the amount of powder until a single charge gives about .002 inch diameter increase. At this point you are at the absolute maximum safe limit and should slightly reduce the charge.

By measuring the cases before and after firing you can determine the comparative dimensions of your chamber and your cases. More than .012-inch expansion of the case body at the point of support inside the chamber mouth is not desirable as that is the maximum tolerance permitted between minimum case and maximum chamber, the ideal being no expansion at all.

It has been found that good brass as represented by modern .30 caliber military cartridge cases does not start to upset or flow until approximately 58,000 pounds per square inch pressure is reached.

An added word of caution: Before you attempt to full length resize a fired case, it is wise to check the body expansion. Commercial cases in particular are made to a minimum size so as to fit readily in the smallest chambers of every commercial rifle. If any fairly abrupt expansion is shown, do not resize the body as it may cause recrystalization and fracture at the point of expansion. You may materially weaken the case just at the junction of the head and body, which is the most critical section.

I have made it an absolute rule never to full length resize any fired case showing a bulge in the body or expansion in the head. Also, if a new primer does not insert tightly into the primer pocket after all crimp is removed, I do not use that case nor a similar charge to that which expanded that primer pocket.

In conclusion: Use maximum loads if you wish but be sure your maximum loads are safe loads for the cases and gun you are using.—O. F. LAMBERT, Department of the Army.

ALTERED BOLT HANDLE

An ingenious method of making a turned down bolt handle has recently come to our attention. The old bolt handle, after being cut off about ¼ to ⅜ inch from the bolt body, is discarded. A completely new bolt handle and knob of any desired size, angle or length is then made, which is in turn attached by means of a threaded stud to

MORE DILLON LOADS

Those timely loads worked up and sent in by Bob Dillon of Golden, Colo., and published in the RIFLEMAN April 1949, page 60, are so useful that undoubtedly an additional list by Dillon will be welcome. Apparently the following loads with No. 4895 powder have not been chronographed for pressure or velocity but they should serve as a useful guide for the popular cartridges.

Since these loads were tested for a particular rifle, they should be approached cautiously when used in others.—A. H. B.

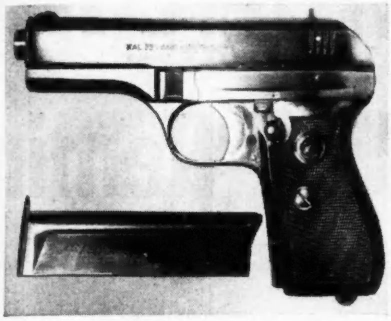
No. 4895 Powder, Lot No. 2191

Caliber	*Bullet Weight*	*Powder Charge*	*Primer*	*Remarks*
8-mm. '06	150(Dillon)	52 grs.	Win. 120	Poor velocity
8-mm. '06	150(Dillon)	55 grs.	Win. 120	Poor velocity
8-mm. '06	150(Dillon)	60 grs.	Win. 120	Hot, blown primers
8-mm. '06	170(Dillon)	52 grs.	Win. 120	Poor velocity
8-mm. '06	170(Dillon)	55 grs.	Win. 120	Fair velocity
.35 WCF	180(Barnes)	54 grs.	Win. 120	Good velocity
.35 WCF	180(Barnes)	55 grs.	Win. 120	Accurate
.35 WCF	200(.35 Rem.)	51 grs.	Win. 120	O.K.
9x57 mm.	180(Barnes)	53 grs.	Win. 120	Excellent accuracy
9x57 mm.	200(.35 Rem.)	46 grs.	Win. 120	Low pressure signs
9x57 mm.	200(.35 Rem.)	51 grs.	Win. 120	Best, accurate

the lug which was left when the old bolt was cut off. After fitting the handle to the proper angle, it is secured by means of a light weld around the jointing surfaces. This method insures against annealing the bolt and extractor cam and the handles are made low enough to clear any low-mounted scope. The excellent idea was worked out by Thomas C. Selway, 720 E. 21st Street, Baltimore 18, Maryland.—A.H.B.

.22-CALIBER CZECH PISTOL

Mr. J. R. Laurie of Greenfield, Mass., has reported an unusual Czechoslovakian pistol.



.22 caliber Czech Pistol

It is a .22-caliber rim-fire weapon which, as pictured here, is an almost exact copy of the standard model 1927 Czech pistol usually chambered for the 7:65-mm. cartridge.

The gun is marked "Bohmische Waffenfabrik A. G. in Prag" and the surface usually reserved for the serial number is marked "VIII". It is possible that only a very few of the rim-fire variety were manufactured. It would be interesting to learn if this model appears in the collections of other NRA members.—J.S.R.

IODINE BLUING

Did you ever hear of a gun blacking using tincture of iodine? A friend gave me the formula about ten years ago and I used it on a couple of guns and it worked swell. This spring I tried it but I have lost the formula and it would not work. It seems I have forgotten something. Here is the formula as near as I can remember it: Clean and degrease the parts in gasoline or alcohol, apply iodine with a brush (as much as will stay on without running), let rust for 24 hours, buff off rust with soft wire brush. Apply two coats of iodine at least (more if wanted) and buff after each coat. Drop in boiling water for fifteen minutes, oil and the next day dry and buff smooth.—A. O. SUNWALL, Missoula, Montana.

Answer: We have never used iodine for browning guns but we see no reason why it should not work as it will rust iron very promptly. In fact, we have often used it for rusting in screws that we do not want to have shake loose, such as screws on scope sights, etc.

R. H. Angier, in his book *Firearm Bluing and Browning* gives the following formula for Iodine Brown: Iodine—fifteen grains, Potassium iodide—37 grains, water—sufficient to make ¼ pint.

No further details of how to use it are given in the book but the above suggests that perhaps the addition of the potassium iodide

(Continued on page 50)

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Please rush a pair of Paratroop Hunting Boots.
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AR-9

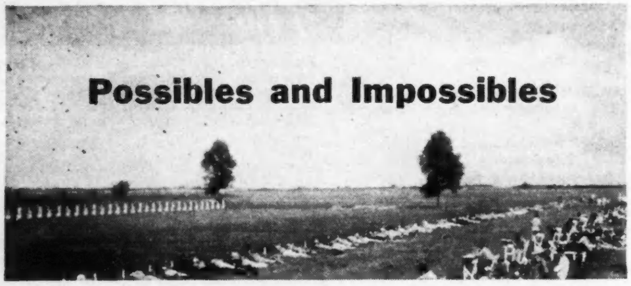
A PAPER FOR PEOPLE WHO SHOOT

Rifle

VOL. 12, NO. 9

BRIDGEPORT, SEPTE

Possibles and Impossibles



There's nothing we like to see better than an encouraging sign (nothing, that is, except downright enthusiasm) when it comes to rifle or handgun shooting. We squint our beady eyes and remain alert as a downwind chuck—always on the lookout for those little tips that reassure our personal feeling that the rifle and handgun sports are among our grandest traditions.

* * *

This time it was the good old mailman. He extracted a letter from his worn pouch which made us as happy as a tyro with a possible. It was from an old friend of ours in the Middle West.

"Waal, old timer," he begins (at this point we smoothed out our crow's feet), "thought meeby that old hectorin' hobo over Norvell u'd be sleepin' under the poppies by this time, huh? Waal, he ain't doin' no such thing, but he's gonna write yeh what fur a gun he's got."

He goes on to tell how he read, in one of the sporting magazines, about a man who opened a Remington shipping box and found a rifle, estimated to be 73 years old, in perfect condition. Well, he couldn't go back that far, but he has a Remington rifle he bought 40 years ago. Originally, it was priced at $75.00, a lot of simoleons for those days, so he waited a bit and picked it up later at a reduced price.

Now that was 40 years ago. He's still using that rifle, and it shoots as well as ever. He's had three barrels on it; the present one is an octagon barrel 24 inches long. It has a full pistol grip, horn capped, with grip and forearm checkered. The receiver, trigger, tang, etc., have some of the finest engraving of birds and animals ever inscribed on a gun—and the stock looks like Circassian walnut.

He's brought home many full bags of game in those 40 years and is still having plenty of shooting fun. "Yeah," he says, "I am still shooting out my 92nd year, and I'm still fairly good with a good rifle, using a scope and good ammunition."

It's really something to shoot the same rifle for 40 years, not to mention our old friend who is looking forward enthusiastically to his 93rd year of shooting. We wonder how many other old timers can match his record. As they say, "The first hundred years are the hardest," and we sincerely hope this fine gentleman is still able to enjoy life and rifle shooting well into the "easy" years.

* * *

Another good sign is the ever-increasing number of enthusiastic service handgun shooters. In the past few years we've seen one old line service group expand from four or five members to its present four or five teams. And recent scores show that they're really hot. In fact, it would now seem possible to take the entire group, toss their names up in a blanket, and draw a team capable of holding its own in any kind of handgun competition.

This spreading enthusiasm is further seen in the rapid strides being made by the members of the pistol shooting fraternity of another of our old line services who, while shooting together for only the past year, have already managed a large percentage of wins at one of the early summer Regionals.

Although faced with difficulties of time and transportation, more and more law enforcement groups are becoming active in match competition, with the prospects of many new teams starting up.

REMINGTO

NEW Remin n

- Improved Accuracy
- Balanced Recoil
- Reliable Functioning
- Punches full size holes in target
- Clean to handle

"Targetmaster" is Reg. U. S. Pat. Off. by Remington Arms Company, Inc., Bridgeport 2, Conn.

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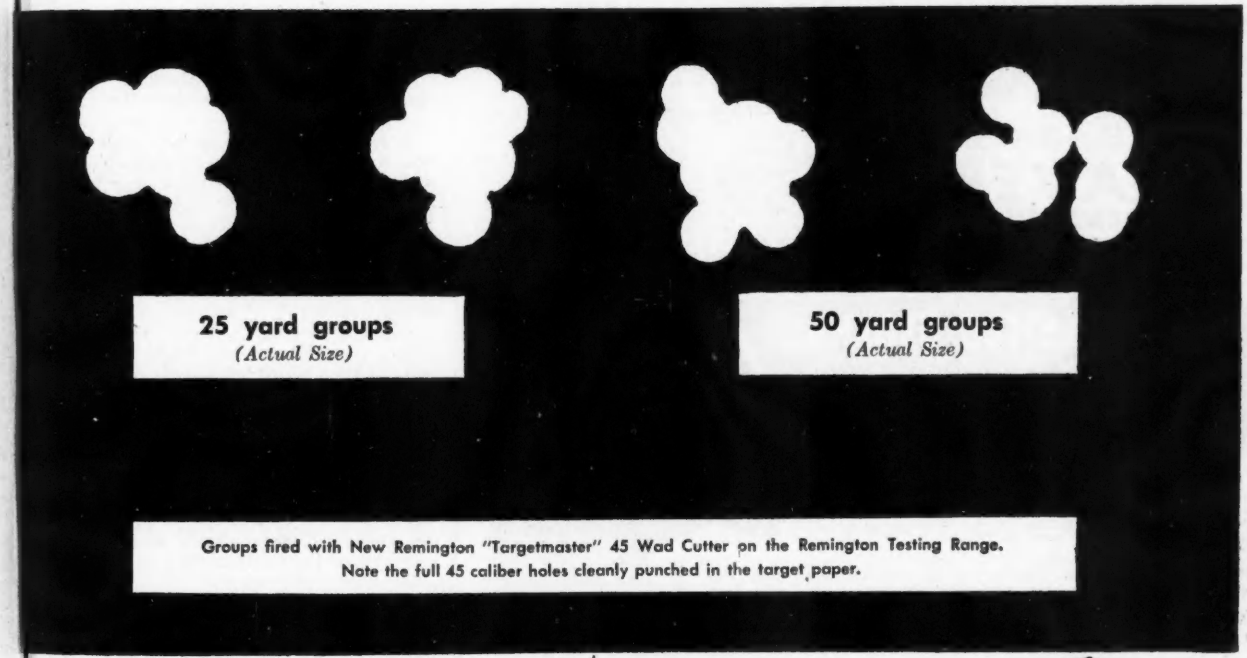
gton News

WEATHER:
THERE'S SOMETHING NEW IN THE AIR FOR PISTOL SHOOTERS

ORT, T, SEPTEMBER, 1949

ANNOUNCES:

n "Targetmaster" 45 Wad Cutter



25 yard groups
(Actual Size)

50 yard groups
(Actual Size)

Groups fired with New Remington "Targetmaster" 45 Wad Cutter on the Remington Testing Range. Note the full 45 caliber holes cleanly punched in the target paper.

STOL SHOOTERS — HERE IT IS!

sensational new 45 match cartridge developed to help you t higher scores. This new Remington "Targetmaster" gives l shooters for the first time a factory loaded 45 caliber Wad er bullet. Remington technical experts have designed a plete new cartridge carefully loaded to precise specifications eet the requirements of handgun shooters who are particular t accuracy, recoil, functioning and all around performance e ammunition they shoot in championship events.

e new Remington 45 caliber "Targetmaster" cartridge with grain metal case Wad Cutter bullet has superb accuracy at istol shooting ranges, yet delivers balanced recoil so impor- for timed and rapid fire stages of the National Match se. The new bullet has a full bearing surface, functions bly by actual test of thousands of rounds in various 45 ls, "souped up" and standard. And of course the new bullet hes a full 45 caliber hole in the target . . . makes the bullet easier to spot and faster to score. Try these new cartridges. your order with your regular source of supply.

Remington
TARGETMASTER
KLEANBORE
45 AUTOMATIC WAD CUTTER
Remington
TARGETMASTER
Ammunition

Remington "Targetmaster" 45 automatic wad cutter, 185 grain metal-case bullet.

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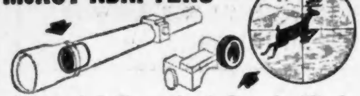

A special Bausch & Lomb "Balcote" lens that gives sharper, more definite contrast, making your target stand out vividly against a blending background. Like sunshine on the target on dark days. Sizes for every scope . . . peep-sights and hunting scopes too. Easy to install. $7.50 pp.

DAYTON-TRAISTER TRIGGERS, new improved Mark II for Enfield, Springfield, Mauser alterations. Speedlock, $15.00 pp; Single-stage, $12.50 pp.

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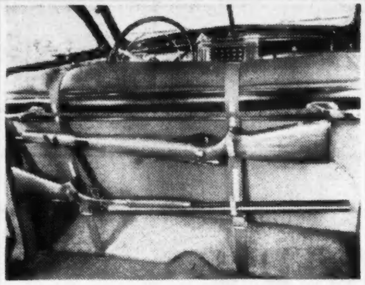

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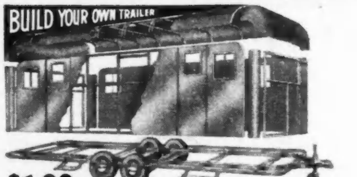

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Dealer Discounts

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San Francisco 11, Calif.

(Continued from page 47)

to your formula might be what is needed. —J. S. H.

NEW B&L HUNTING SCOPE AND MOUNT

Bausch & Lomb Optical Co. are now in production on the new variable power B&L hunting scope and B&L mount which were announced sometime ago. In addition to the Balvar, variable in power from 2½ to 4, there is the Baltur fixed 2½ power and the Balfor which is a fixed 4-power scope. None of these scopes have internal windage and elevation adjustments, as these are provided in the new detachable B&L mount.

We have been using a Balvar in the B&L mount for sometime. Both scope and mount meet all exacting requirements and specifications for a combination of this kind. Optically the Balvar, when set for 2½ or 4 power, is second to none. A constant zero was maintained when using the combination on a Model 70 with the scope set at either 2½ or 4 power. Likewise, the constant zero was maintained when removing and replacing the scope between shots. The mount design makes a constant zero possible, as the scope is held securely in a V formed by two pairs of accurately machined steel cones. Windage adjustment is in the front base and elevation is in the rear base. Each graduation represents approximately one inch in both windage and elevation adjustments. To make adjustments for elevation or windage, the locking caps on the right side of the scope mount are loosened so that the coin-slotted screws on the left side which are connected to the steel cones can be moved. At present the mount is made for the Winchester model 70, Remington model 721, Springfield, Enfield and FM Mauser rifles. These mounts fit on rifles like the models 70 and 721 rifles which are already drilled and tapped for a receiver sight and for a rear scope base.

After removing the scope nearly a hundred times and replacing it on the rifle, the finish on the scope was worn through where it contacts the machined steel cones. We understand the condition is being corrected by controlling the anodizing process when coating the light metal alloy used in the scope tube.

The Balvar weighs only 7½ ounces, and the mount complete weighs six additional ounces. The scope with standard one-inch diameter tube is 11½ inches long. Normal eye relief for both the 2½ and 4 power is 4 inches.

The excellent B&L optics of the Balvar scope give a brilliant contrast of image and very sharp definition all the way to the edges or the entire field of view, which is 26.2 feet for the 4 power and 34 feet for the 2½ power.

The Balvar scope lists at $80.00, the Baltur and Balfor at $65.00 each. Mounts for all the different rifles list at $25.00.—A. H. B.

NEW PRODUCTS

New .45-caliber Targetmaster Wadcutter cartridge for use in the .45 Government model pistol has just been announced by the Remington Arms Company, Bridgeport, Conn.

Instead of the usual 230 grains, the new bullet weighs only 185 grains. The reduced weight greatly reduces the recoil and thus makes it much easier to shoot the timed- and rapid-fire stages.

However, the most important feature of the new bullet is the shape, which gives it a wadcutter effect and makes it punch a round clean hole, assuring the shooter of everything he is entitled to on the target.

We have done enough shooting with advance samples of the new cartridge to know that the maker's claims are fully justified. We expect the cartridge to become very popular in .45-caliber pistol matches.

☆ ☆ ☆

South Bend surface plate, V-blocks and angle plate that are being produced by the South Bend Lathe Works will be welcomed as highly useful additions to the well-known line of equipment produced by the company, almost all of which is highly suitable for either the professional or amateur gunsmith shop. These new items are very desirable for shop operators who wish to obtain precision equipment for inspection of their work. South Bend's address is 452 E. Madison St., South Bend, Ind.

☆ ☆ ☆

Rifleman's self-counting cartridge block, selling for $3.50 postpaid from W. R. Good Distributing Company, 5015 Detroit Ave., Cleveland 2, Ohio, is a very handy item for the small-bore shooter. It holds a group of five sighting shots for the 100-yard range, plus two rows of ten shots each for 100-yard record; also, another group of five sighting shots for the 50-yard range, and four diagonal rows of five shots each for the 50-yard record. By having the cartridges arranged in this way, it is quite easy for the rifleman to tell merely by feel just what cartridges he has in his block and where to take them from for each purpose. The block should definitely assist in preventing mix-ups on the range.

☆ ☆ ☆

Cline 90-degree swivel, available from Michaels of Oregon, 2011 S. E. Lambert, Portland 2, Ore., for $2.75 a pair, seems to be a handy, convenient and practical item. Quickly detachable, the swivel can be instantly removed from a gun by pressing on the button in the center of the swivel loop. The same sling can be used on different guns by installing the extra bases.

While it is instantly removable, the sling will only swivel 90 degrees in each end, thus preventing any chance of twisting or tangling the sling.

☆ ☆ ☆

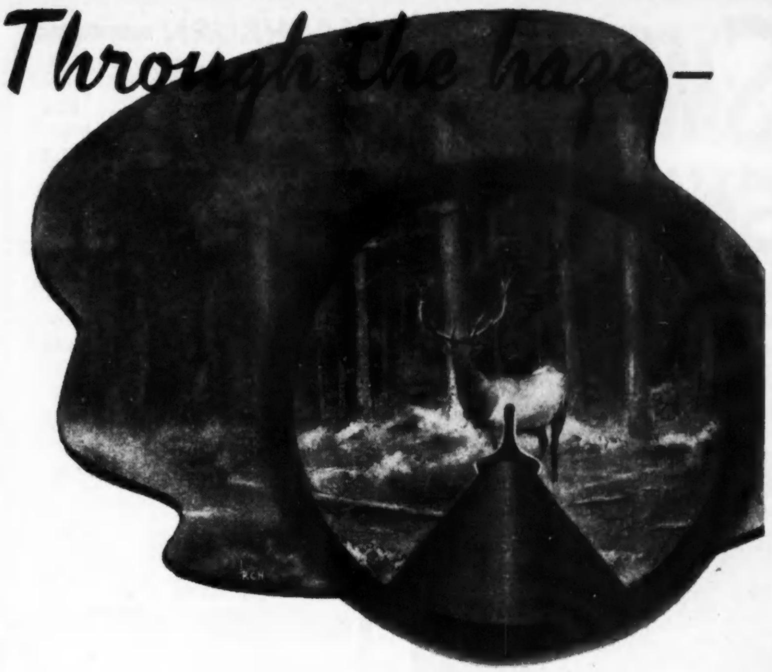
Sporterized Enfield stocks made from the issue type are currently available from B. B. Ellerbeck of 42 Ninth East Street, Salt Lake City, Utah. Although these are not like fancy custom sporter stocks, they are entirely practical for the man who wants to convert at minimum cost. They list at $6.00 for the plain grain and $7.00 for the fancy grain. Full-length issue stocks are also available at $2.00 and $3.00, depending upon the grain.

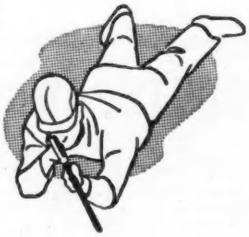
☆ ☆ ☆

Pneumatic rifle by Sheridan Products, Inc., Racine, Wisconsin, is made to sell in the lower price field at $19.95. If it is as accurate as other Sheridan pneumatic guns, it will be an interesting buy at this price.

☆ ☆ ☆

Miniature scope being sold by Pan Technics, Ltd., Encinitas, Calif., is a small pen-sized telescope called the Penscope Six. An appeal-





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Sounds unbelievable? It's been *proven*—riflemen have been testing it here in the Northwest on rifle ranges... hunters on all kinds of terrain in all kinds of weather. Frankly, we're amazed at its sensational performance... Works miracles in dull light of dusk or dawn (Big Game time!)

This new inexpensive sighting attachment, an invention of an Oregon gunsmith and an eye specialist, is equipped with a special ophthalmic lens made to the McRoy specifications by Bausch & Lomb—this lens has no power or parallax, yet... the extraordinary ability to eliminate certain light rays and glare.

The McRoy Gunsight Attachment is made for both peep-disc and scope sights. It adds no appreciable weight or outward bulk... generally is simple and easy-to-install... slips in or out in a matter of seconds.

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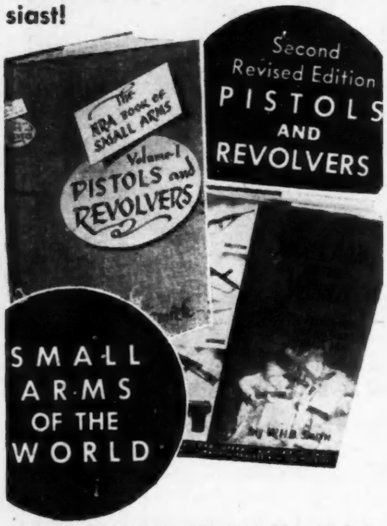

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B. E. HODGDON • MERRIAM, KANSAS

ing little six-power gadget, it can be carried easily in the breast pocket with no more inconvenience than a fountain pen. The scope seems to be good optically and has a field of 105 yards at 1000 yards. Retail price is $9.95.

GUNSMITH TRADE DOPE

Robert Abels, 860 Lexington Ave., New York 21, N. Y., has a new 1949 catalog listing antique and modern firearms and edged weapons. Selling for 50¢, the 192-page catalog is a valuable reference for collectors and dealers.

☆ ☆ ☆

Terhaar Gun Works, 3108 Main Street, Jacksonville, Florida, is featuring new folding three-leaf rear sights which are machine-made but custom fitted and finished. These sights, made for Enfield, Springfield, Krag and Mauser rifles, have limited elevation adjustment. They are also available upon special order for commercial or custom barrels. The sights are very attractive for those who want the open type which may be conveniently set for at least three different ranges. The retail price is $11.00.

☆ ☆ ☆

P. O. Ackley, Inc., Trinidad, Colorado, has been making a lot of stainless steel barrels and we have been trying a number of them in .22 and .25 calibers in an erosion test. So far these stainless steel barrels are wearing very well, even with heavy loads in the .25 Magnum. The problem until recently has been how to blue the stainless steel. However, Heatbath Corporation, Springfield, Mass., has developed a system, and Mr. Ackley is installing an outfit to do the bluing job at the time the barrels are fitted. Bluing stainless steel requires special equipment which is not practical in the home workshop.

The bluing jobs we have seen on stainless steel give a rather dull blue to black finish, but it is far better than the old method of first iron plating stainless steel and then coloring the iron. As far as we can tell so far, the finish on the stainless steel barrels wears rather well.

☆ ☆ ☆

John C. Bogut, 725 Third St., Hudson, Wisconsin, can supply a Springfield trigger attachment which removes the first stage of the military pull. A small, properly shaped piece of metal is merely placed between the bottom of the receiver and top of the forward part of the trigger. The gadget can be installed in a few minutes by anyone and it does a satisfactory job of removing the first stage of the pull.

☆ ☆ ☆

Brown & Ball, 1206 "B" Ave., LaGrande, Oregon, have applied for a patent on what they call an outside case neck reamer. In effect, the device is practically a small hand-operated lathe designed especially for trimming cartridge case necks to uniform wall thickness, which is a very important factor when trying to eliminate all the errors and variations possible in producing accurate handloads.

In use, a cartridge case neck is slipped over a pilot of proper diameter and then an adjustable hardened cutter passing through the body of the tool is set to trim off uneven brass in the case necks. This outside neck reamer may be used by hand, in a hand drill or in a drill press. The tool would be ideal for trimming down the wall thickness of cases reformed for some of the wildcats. The outside case neck reamer is really the first practical tool of this kind we have had an opportunity to try.

☆ ☆ ☆

Z. S. Denman, 423 W. 126th St., Hawthorne, Calif., whose excellent wood chisels and gouges were mentioned briefly sometime ago, is ready to produce the tools in quantity. After considerable experimenting with different sizes and shapes, the set consists of eight carving chisels and gouges listing at $18.50. The tools are specially forged and heat-treated to insure toughness plus a durable, long-wearing cutting edge.

☆ ☆ ☆

James E. Serven, Santa Ana, California, has just issued a catalog of the Dr. Howard Andrews collection of shoulder arms. Featured are many fine American single-shots, including several bearing the famed name 'H.M. Pope'. Also included are many handguns and European collector's items. Of interest to the gunsmith and tinkerer are parts for Colt and Remington percussion pistols, Springfield .45-70, Colt single-action and Sharps model 1863. The catalog (42 pages; many illus.) is priced at $1.00.

☆ ☆ ☆

Vearl M. Johnson, 2516 W. Petty Ave., Muncie, Ind., makes an excellent lead wire or lead core cutter tool. When using wire of uniform diameter, the manufacturer guarantees that lead cores will vary no more than one-tenth grain, which is holding weight variation to a minimum. We have found that it is possible to cut cores regularly to the minimum weight. The lead cutter blades are made of high-speed hard steel. The standard model cutter sells at $10 complete, and extra cutters for any size wire are available at extra cost. There is a model at $14.50, with a black crinkled finish and blued steel parts, which will do the same job as the standard model. The Johnson lead cutter is a fine tool to complete the bulletmaking outfit.

☆ ☆ ☆

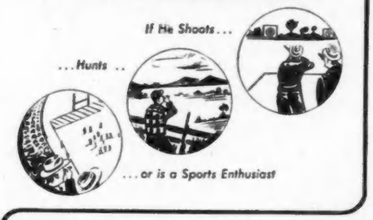
Paul G. Mansfield, New Boston, N. H., who makes those very excellent cast bullets ready to use, can now furnish either bullets or completed loads for the 8-mm. Jap Nambu pistol. He makes the cases by working over the .30-caliber Luger, which he says expands somewhat near the base to fit the larger chamber of the Jap pistol, but they work very well with his load developed with an 85-grain plain-base 8-mm. bullet sized to .321 inch and 3.5 grains of Bullseye powder. Mr. Mansfield prefers to furnish bullets only, but can apparently supply the loads ready to use as well.

☆ ☆ ☆

Ivan Medvedic, Jr., Box 972, Roslyn, Wash., who has been making gunstocks more or less as a hobby for about ten years, believes he has the experience necessary to become a full-time gunsmith. We would think so too, judging by the two Sporters sent in for examination. Both jobs showed fine workmanship throughout, from checkering, inletting, stock refinishing and metal work as well. The buttplates, front ramps and sling swivels were hand made.

FOR THE MAN WHO
"ALREADY HAS EVERYTHING"

— THE *Monette —
8 x 30 PRISM SCOPE


If He Shoots . . .
. . . Hunts . .
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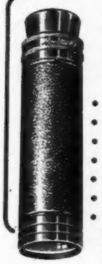

He'll appreciate the compact convenience, the high-power performance, of this top quality precision instrument. No draw tubes, no offsets, always ready for instant use.

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Instant Zipper suede case for above	1.75
Custom Monette, with gold finished fittings and suede case	59.50
Neck cord, with strap	1.25

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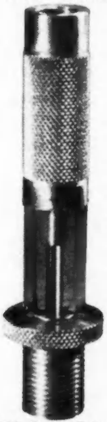
THE VICKERMAN BULLET SEATER



For all bench loading tools using ⅞"—14 Pacific type dies.

Featuring—

1. Bullet seating in an absolute straight line.
2. Simple to operate. Merely: Raise case to contact seater guide, drop bullet base down in groove and complete upstroke.
3. Easily adjusted for seating depth.
4. Presently made in 4 sizes, 22, 25, 27 & 30. Each size will seat bullets for all calibers in that size. Example: The 22 size will seat bullets for the 22 Hornet, 218 Bee, 219 Zipper, 220 Swift, 22-250 W. O. S. and Wildcat variations using .224 bullets.
5. Only necessary extra purchase is case holder extension for the shorter cartridges. Example: 30 cal. size will seat both 30-06 and 300 Mag. with no extras. If you wished to load 30-30 cases, an extension case holder would be necessary.

Bullet Seaters, any size $7.75. Extra ext. case holders 80¢.

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S & W Handguns, McHenry-Roper	7.50
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Enclosed find $________(check, money order). Send me the items checked on money-back guarantee.

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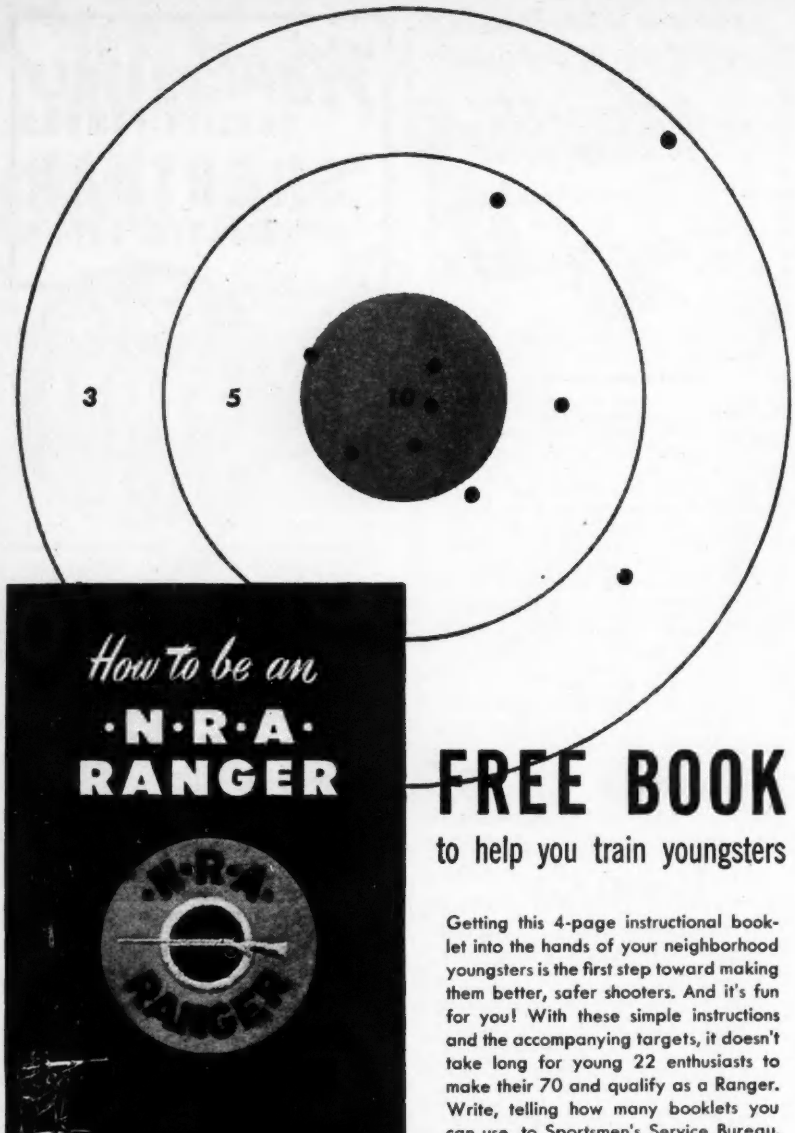

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to help you train youngsters

Getting this 4-page instructional booklet into the hands of your neighborhood youngsters is the first step toward making them better, safer shooters. And it's fun for you! With these simple instructions and the accompanying targets, it doesn't take long for young 22 enthusiasts to make their 70 and qualify as a Ranger. Write, telling how many booklets you can use, to Sportsmen's Service Bureau, 343 Lexington Ave., New York 16, N. Y.

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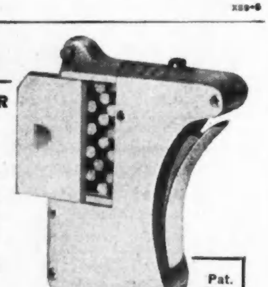

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Box 74 HOLLIS, N. H.

BOOK REVIEWS

THE ULTIMATE IN RIFLE PRECISION

By Harvey A. Donaldson, Townsend Whelen and Frank E. Hubbard

Organized less than two years ago, the Bench Rest Shooters' Association, has grown steadily and in that relatively short time the Association members have set a standard for accuracy heretofore undreamed of. Much of the credit for such rapid progress is due to the efforts of a number of old-timers who have been in the group-shooting game for 50 years or more. This list would naturally include well-known riflemen like H. A. Donaldson, President, and Colonel Townsend Whelen, Vice-President of the newly organized Association. This background, plus the latest development in rifles, cartridges, barrels, bullets and chambering methods has made this unheard-of accuracy possible. Groups as small as .17 inch, center to center for five shots have been made at 100 yards.

The men who have made these fine groups have joined together to tell others what they have to do to equal these results. Their efforts are this yearbook which is divided into seventeen chapters. Some important subjects covered are construction of the bench rest, technique of bench-rest shooting by Samuel Clark, Jr., chambering a rifle barrel by Al Marciante, and bulletmaking by Samuel Clark, Jr. Other valuable data obtainable from no other source includes one chapter on the Biehler uniform weight-core forming die by Ray Biehler and another chapter by Taylor and Robbing on stocking and bedding the bench-rest rifle.

Most of the consistently fine performance at the bench-rest matches has been done with the popular .219 Wasp cartridge. (The name "Wasp" now bears a trademark registration by Vernor Gipson, North Salem, Indiana.) One of the reasons for the showing of this fine cartridge is summed up precisely by Colonel Whelen by so many words, "Thus while this book seems to show that a certain rifle known as the .219 Donaldson Wasp has been one that has reached the top in precision, this is only an incident, due probably to the fact that in the past three years the artisans of the Association happen to have concentrated their skill in the fabrication of barrels, breech actions, stocks, sights, cartridges and bullets for this particular caliber. Such concentration on another caliber undoubtedly would have produced similar results."

The 1949 yearbook is the one and only book of its kind. Unquestionably everyone interested in small group shooting can in one way or another gain valuable information from those who have given so freely from their experiences, thus making publication possible. To reduce production cost for the 1500 copies of this nonprofit book, material was offset lithographed from Vari-type plates. Even the small, somewhat irregular print and minor typographical errors can be overlooked in a book of this kind.—A. H. B.

(Published for the Bench Rest Shooters' Association, Johnstown, New York, by The Sportsman's Press, 1115 17th Street, N. W., Washington, D. C. Paper bound, 147 pages, illustrated. Price $4.00.)

THE ARMS CHEST

GENERAL REQUIREMENTS APPLICABLE TO CLASSIFIED ADVERTISING

1. Rate: 25 cents per word including name and address—minimum charge $3.00. Advertisements *must be accompanied by remittance,* made payable to "National Rifle Association"—1600 **Rhode Island Ave., Washington 6, D. C.** *Insertion will not be made until payment is received.*

2. Closing Date: All advertisements must be received with advance payment by not later than the 1st of the month preceding date of issue. (Example: September 1st for the October issue. Ads received after September 1st and not later than October 1st will be inserted in the November issue.)

3. Who May Advertise: Any individual or firm whose advertisements and methods of doing business meet our requirements may advertise their goods or services in the ARMS CHEST.

4. All Orders Subject to These Conditions: We reserve the right to edit all copy to conform with our standards and to reject or discontinue any advertisement which we consider undesirable.

5. Transactions Based on Good Faith: ARMS CHEST transactions are based on good faith and mutual satisfaction. Deliberate misrepresentation, disregard of usual business ethics, or the attempt to circumvent these general requirements, will result in refusal of further advertising and might result in disbarment from the NRA, in the case of members.

6. Blind Ads Not Acceptable: Blind ads, with box numbers *only*, will not be accepted. Give your COMPLETE name and address, to insure prompt delivery of all mail or telegraph replies.

7. How to Count Numerals, Etc.: Groups of figures are counted as one word (example: .30-30, 250-3000, $150.00, $1.50). Abbreviations consisting of initials or single characters are counted as one word (example: W. H. Smith; H. B., meaning heavy barrel). Hyphenated words are counted as two words (example: 20-gauge, pearl-handled, no-slip).

8. Responsibility for Illegible Copy: Type or print ads plainly, for we can not be responsible for errors due to illegible writing.

9. Firearms for Sale or Trade Should Be Properly Described: We urgently recommend that the *condition* of every gun (including essential parts) advertised for sale or trade, be clearly indicated in accordance with the following *NRA standard descriptions*: PERFECT—meaning factory condition; EXCELLENT—meaning new condition, implying negligible amount of use; VERY GOOD—meaning practically new condition; implying little use, with no appreciable bore wear and only minor surface scratches or wear; GOOD—meaning moderate use with some finish worn off, only moderate bore wear, with no pits and nothing worse than a little roughness in the bore; FAIR—meaning no parts missing necessary to use of gun, reasonable wear inside and out, nothing worse than minor pits in steel or stock, gun sufficiently accurate for hunting. POOR—meaning marred appearance and pitted or badly worn bore.

We further recommend that when price lists or catalogs are offered, the *condition* of every weapon or item so listed be properly described in accordance with these NRA standards.

WARNING TO PURCHASERS: The National Rifle Association *will accept no responsibility whatever* for *any* unsatisfactory transactions involving guns or other items which have not been described in accordance with the foregoing NRA standards. It is therefore important for purchasers to *insist* that sellers give full and complete descriptions of all items in accordance with these standards—*before* any such transactions are consummated.

10. Privilege of Examination: Requesting shipment by express C. O. D., *with examination privileges* will permit the purchaser to inspect the merchandise *in local express office* and authorizes the express company to return unsatisfactory merchandise at shipper's expense.

11. The National Firearms Act forbids the sale of the following: (*a.*) Full automatic machine guns. (*b.*) Rifles and shotguns with barrels less than 18 inches in length or 16 inches in the case of a weapon of .22 or smaller caliber. (*c.*) Handguns such as the Mauser or Luger automatic pistols, when such weapons are equipped with detachable butt stocks, except that all of the above may be sold by a Federal licensed dealer who has paid the special tax required by Section 3260, Internal Revenue Code. NOTE:—"Barrel length", as it applies to the above, is determined by the insertion of a cleaning rod from the muzzle until it comes to rest against the face of the closed breech.

In addition, the NRA has adopted a policy of not accepting advertisements covering small *pocket* pistols or revolvers of less than .38 caliber, or with barrel lengths of 2 inches or less, which have no practical value as target, police or military weapons.

12. Fair Trade Laws: All states with the exception of Missouri, Texas, Vermont and the District of Columbia have Fair Trade laws which permit manufacturers to contract with their distributors to maintain standard retail prices. Dealers who fail to do so are subject to legal action.

FOR SALE

BERT-TONY CROW-TONED CALLS WON seven of first ten places at 1949 National Crow Shooting championships. Tuned in pairs, with full instructions, $5.00. Bert Popowski, Aberdeen, South Dakota.

LOWEST AMMUNITION PRICES FROM America's largest mail order ammunition firm. Don't wait until the last minute to place your orders for fall shooting. Complete and fresh stock of over 275 types of Factory loaded cartridges for practically all kinds of American and foreign rifles, pistols and shotguns . . . the largest variety offered by any firm in America at prices that are the very lowest authorized by the manufacturers. Send 3¢ stamp for complete listing. Here are some of our values. Prices are for 50 cartridges. Free pocket size metal ammunition container with every order. Following sizes are all made with soft point bullets, suitable for hunting. 6.5 x 53 MM rimmed, $12.95; 6.5 MM Mannlicher Schoenauer (6.5 x 54), 139 gr, $8.50; 6.5 x 57 MM, rimmed or rimless, $8.50; 6.5 x 58 rimmed, $14.50; 7 MM Mauser, $8.05; 7x57 MM rimmed, $12.95; 7x64 MM rimless, $13.50; 7.62 MM Russian, $8.05; 8 MM Mauser, $8.05; (8 MM Mauser size fits German Army rifles) 8 MM Mannlicher Schoenauer, $8.05; 8 MM Lebel, $8.05; 8x50 MM, Austrian Steyr, model '95, $15.50; 8x57 MM JR, $14.00; 8x60 MM rimless, $12.75; 8x60 MM rimmed, $14.50; 8x72 rimmed, $14.50; 8.15x46 MM rimmed, $12.00; 9 MM Mauser, $15.75; 9 MM Mannlicher Schoenauer, $14.00; 9.3x62 rimless, $15.75; 9.3x72 rimmed, $15.00; 9.3 x 74 rimmed, $22.00; 9.5 MM Mannlicher Schoenauer, $14.50; 11 MM Mauser, $18.50. American sizes, listed below, are also priced for 50 cartridges. 218 Bee, $3.85; 219 Zipper, $5.58; 22 Hornet, $4.28; 22 Savage Hi Power, $5.89; 220 Swift, $6.50; 25-20 Winchester, SP, $3.65; 25-20 Winchester, Hi Velocity, $3.91; 25 Remington, $5.89; 250-3000 Savage, $6.81; 25-35 Winchester, $5.89; 257 Roberts, $7.45; 270 Winchester, $8.05; 30-30, $6.20; 30 Remington, $6.20; 30-06 SP, $8.05; 30-06 Army, MJ, $4.50; 300 Savage, $7.75; 300 Holland and Holland Magnum, $9.92; 30-40 Krag, $8.05; 303 British, $8.05; 303 Savage, $6.53; 32 Winchester Self Loading, $4.65; 32 Remington, $6.55; 32-20 Winchester SP, $3.91; 32-20 Winchester, Hi Velocity, $4.28; 32 Winchester Special, $6.55; 32-40 Winchester, $5.89; 33 Winchester, $8.05; 348 Winchester, $8.98; 35 Winchester, $8.98; 35 Winchester Self Loading, $4.46; 351 Winchester Self Loading, $4.84; 35 Remington, $7.12; 375 Holland and Holland Magnum, $10.84; 38-40 Winchester, $4.34; 38-55 Winchester, $6.20; 401 Winchester Self Loading, $5.99; 405 Winchester, $8.95; 41 Swiss rimfire, $7.88; 44-40 Winchester, $4.28; 45-70-500 lead, $4.25; 45-70-405, black powder, $5.50; 45-70-405 Soft point, $7.45; 50-70 Govt or Sharps, $10.00. New reduced prices on all size shotshells, new list now ready. Please send 3¢ stamp. Prompt service, orders shipped on day of receipt. Terms, check or money order or 25% deposit on CODS. Life Member, Philip Jay Medicus, Dept A-9, 18 Fletcher St., New York 7, N.Y.

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(NEW) SMITH, SINGLE OLYMPIC, 32 inch, 1¾x1½x14½, $159.90. Browning O&U, 23 in., mod. & imp. cyl., ventilated rib, excellent, $225.00. Solid rib, excellent, $200.00. Win., ventilated rib., C.C., pigeon, 12 ga., $125.00. Rem. 31, Skeeter, ventilated rib., v.g., $100.00. Send for list. Hershey's, Orrville, Ohio.

EXCELLENT SAVAGE 99T, 250-3000, SLING, Lyman rear, peep sight, 4 boxes ammunition, $85.00. Lilburn Neinast, Brenham, Texas.

NEW .257 ACKLEY MAG. WITH LOADING & forming dies, no stock, no sights, $85.00. Robert Jackson, Castle Rock, Wash.

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ENFIELD, MAUSER 24 SPORTER, $35.00. Late Springfield, Herters, Redfield, $55.00. K43 with scope, $50.00. Remington 11, auto. 12, compensator missing, $37.50. Alaskan coated, $52.00. Zipper Reamer, $6.00. Stamp, description. Hollis Miller, Bucyrus, Ohio, R. 3.

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FOR SALE: WALNUT, CHERRY AND curly maple gunstock blanks, sawed to patterns. L. G. Stockberger, Garretsville, Ohio.

FIREARMS FOR SALE—NEW MARLIN 336 carbine, 30/30, $61.45—New Marlin Sporting carbine, 30/30, $61.45—New Winchester mod. 12, pigeon grade, vent. rib, beavertail, 12 ga., $235.00—New mod. 70 target bbl., cal. 257 Roberts, Lyman rec. sight, $166.95—New mod. 81 Remington auto., 35 cal., $129.95—New Remington, 141 cal. 35, $104.95—New Winchester, 71, 348 cal., $91.10—New Mod. 21 Winchester, skeet grade, 20 ga., 28" bbl., one and two bore, single selective, $276.50. Wilson Sports Equipment Company, Rutland, Vermont.

Good Sales—
and *Long* Life!

"We continue to receive excellent results from our advertising in the 'Arms Chest'—with *many* repeat orders. Some of the new sales are directly traceable to ads we ran with you nearly a year ago!"—*Pa.*

If you have some special service or product of interest to shooters and hunters, it's quite possible we can help you to build up an equally profitable business—thru an every-month schedule of ads in these columns.

We suggest you send us a "test" insertion for the November issue, which closes on October 1st.

☆ ☆ ☆

See above for full instructions

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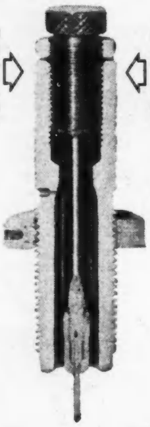
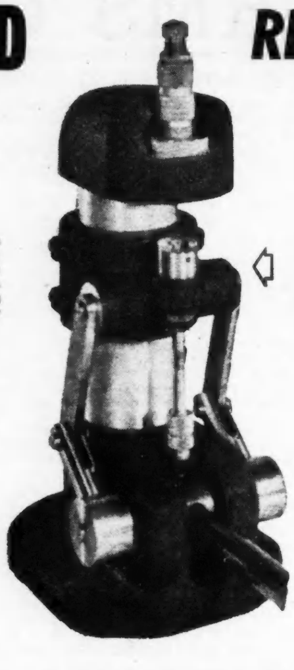
The new Hollywood reloading tool is fully guaranteed. PATENT PENDING. Free literature. Discounts to dealers.



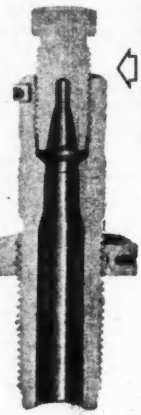
Cutaway view of the Hollywood full length resizing die complete, showing their advanced design and construction.

Hollywood dies in stock for 131 different calibers; other calibers continually being added. Write for latest die list.



The new Hollywood Tool is $37.50,. complete with one set of dies.

The Hollywood Tool is massive in design, with leverage and ease of operation for the most efficient method of reloading cartridges, or SWAGING bullets.



Cutaway view of the Hollywood bullet seating die complete. One set of dies, as shown, $12.50, includes resizing die and bullet seating die complete.

See our ad next month on the latest
UNIVERSAL RELOADING TOOLS
DISCOUNTS TO DEALERS

In Canada, order through
WESTERN SCOPE SERVICE
P.O. Box 220, Calgary, Alberta

HOLLYWOOD GUN SHOP

6032 HOLLYWOOD BLVD., HOLLYWOOD 28, CALIFORNIA

NEW! . . . NOW AVAILABLE . . . NEW!

INSTALL-IT-YOURSELF ATTACHMENT

⅞" SPOT SHOT attachment 8X, outside diameter 1⅛" for Weaver G4, G6, J2.5 and J. C. Higgins scopes, achromatic lens, non-rotating focusing adjustment. Just the thing for low priced scopes for varmint shooting and hunting.

Easily installed, scopes can be changed back to original power. PRICE $9.00. Leather dust caps $.75. Write for new literature on the above attachment.

Dealers write for quantity discount.

R. A. LITSCHERT, *Dept. B,* WINCHESTER, IND.

RIFLE RANCH

SPECIALS FOR SEPTEMBER F.O.B. Prescott

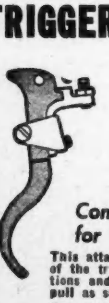
.250-3000 cases, per 100	$7.50
45 gr. .22 Hornet bullets	2.00
86 gr. .25-20 soft points	2.50
100 gr. .257 Corelokt s.p.	4.00
.30/30 Factory ammunition, box	1.80

A complete line of reloaders supplies, components and tools in stock for immediate shipment. Send stamp for complete list.

JIM WILKINSON

Rifle Ranch • Prescott, Arizona

TRIGGER ATTACHMENT



**FOR ENFIELDS,
SPRINGFIELDS,
MAUSERS,
30 REMINGTON
and KRAGS**

Complete with instructions for installing. Price $2.50

This attachment will take all the slack out of the trigger on any of these military actions and will give you as crisp a trigger pull as safety will permit.

See your dealer or order direct, giving make of rifle for which attachment is wanted.

ENFIELD RECEIVER precision ground full length, barrel cut off and muzzle crowned if desired, all for $5.00

STRAIGHTENED ENFIELD TRIGGER GUARDS Exchange $2.50

These guards are blued and furnished with one long screw. SOLD ONLY ON AN EXCHANGE BASIS. The above two items as priced do not include shipping charges. They will be returned C.O.D. if desired.

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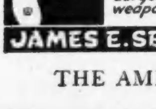

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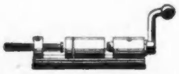

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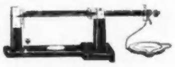

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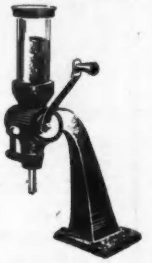

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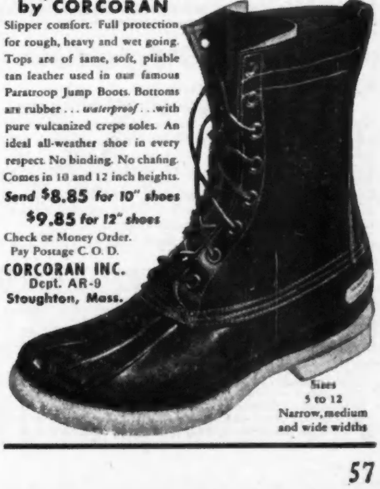

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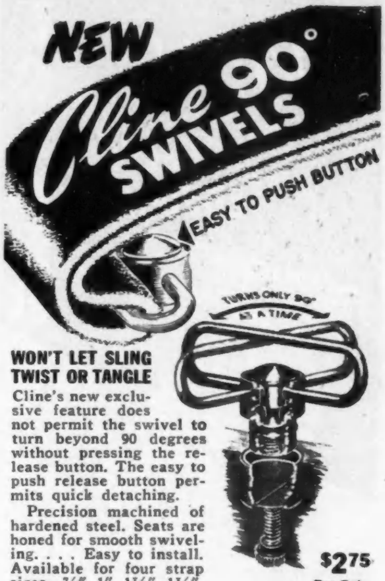

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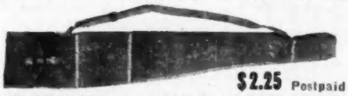

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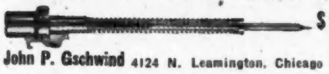

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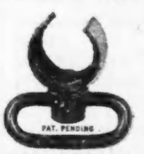

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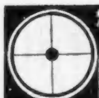

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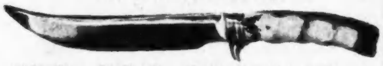

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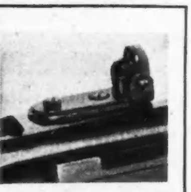

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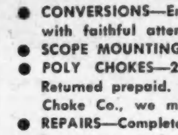

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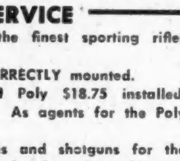

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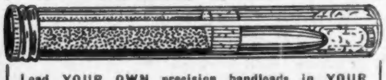

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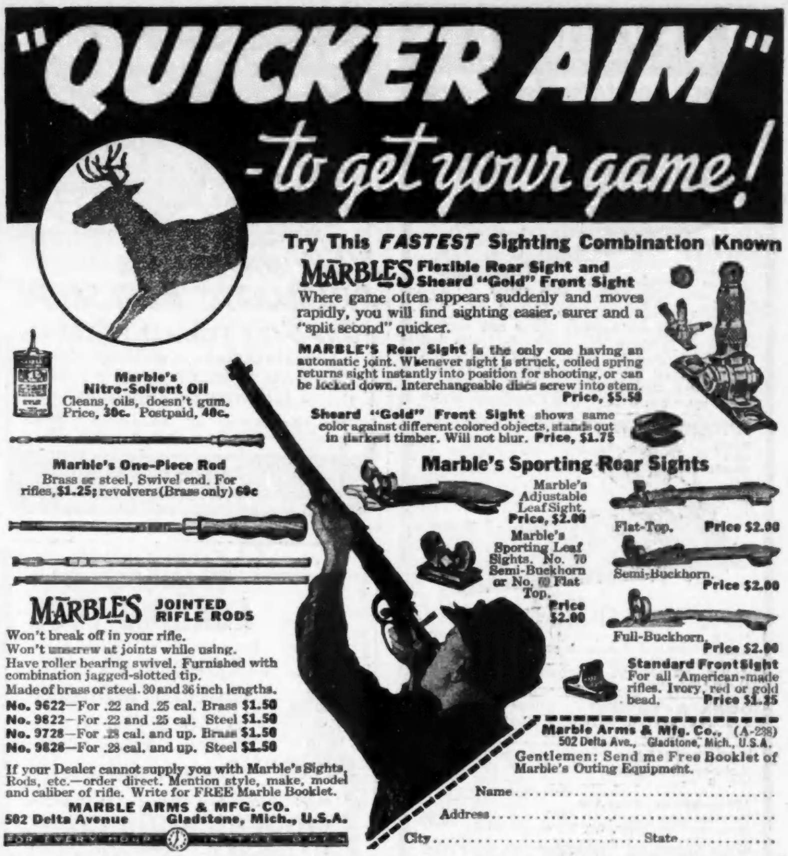

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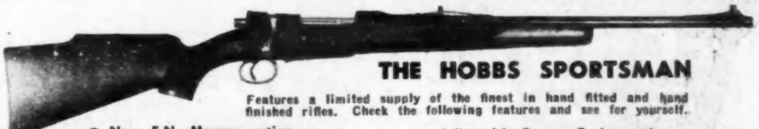

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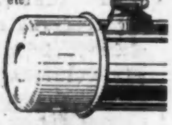

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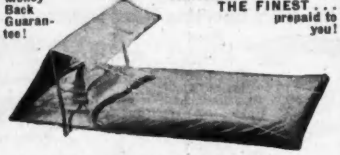

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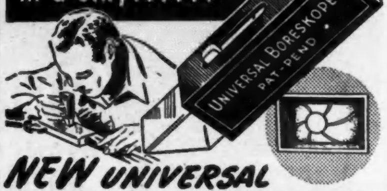

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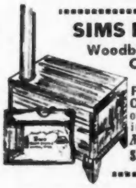

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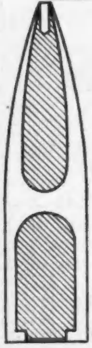

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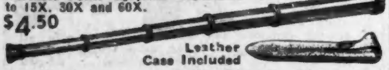

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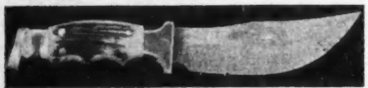

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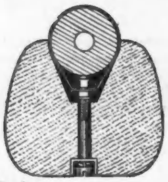

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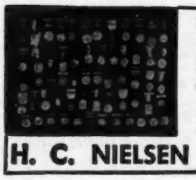

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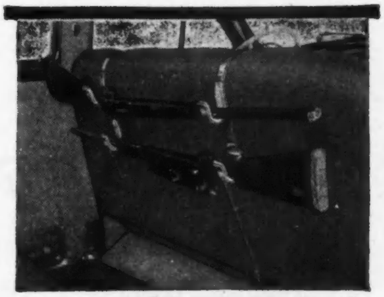

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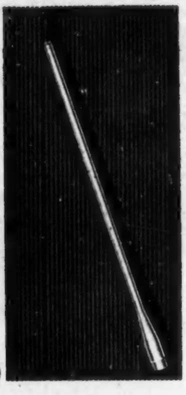

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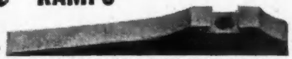

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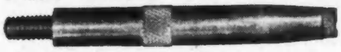

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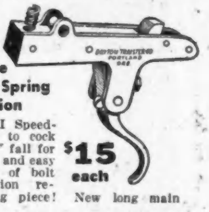

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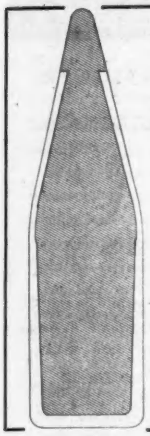

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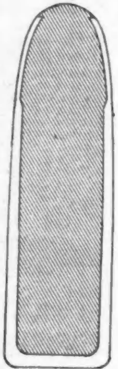

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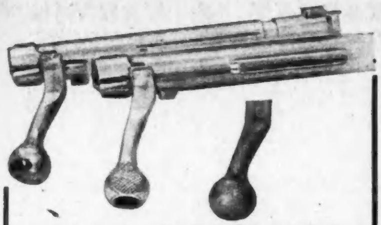

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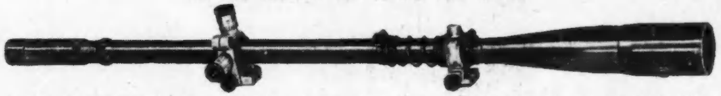

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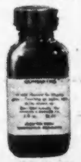

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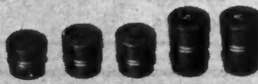

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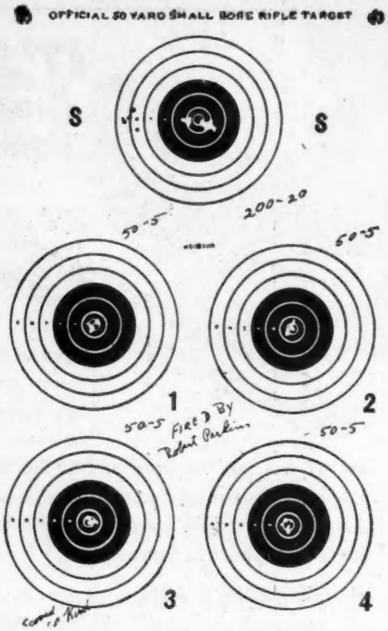

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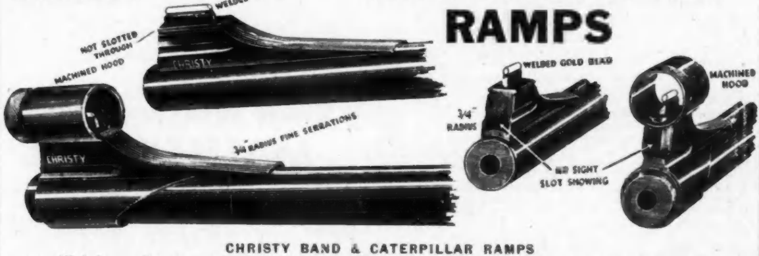

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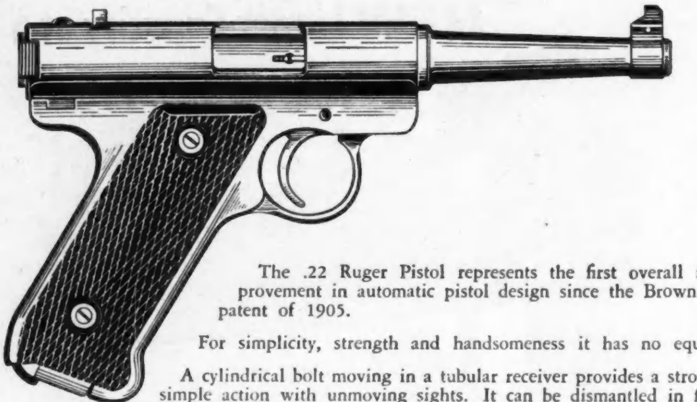

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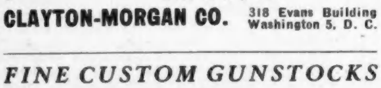

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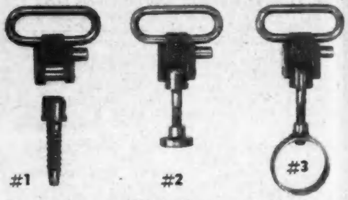

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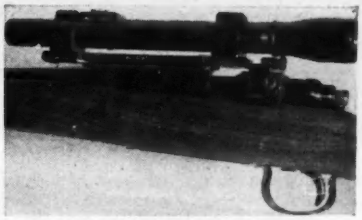

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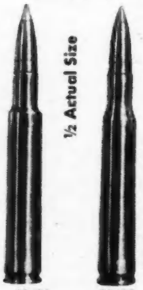

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30/06

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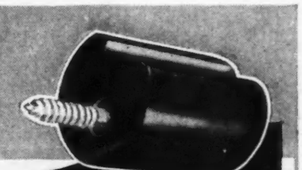

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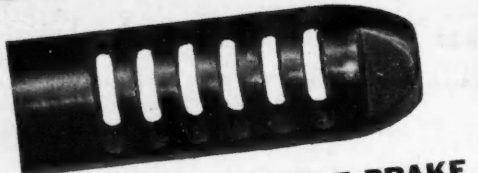

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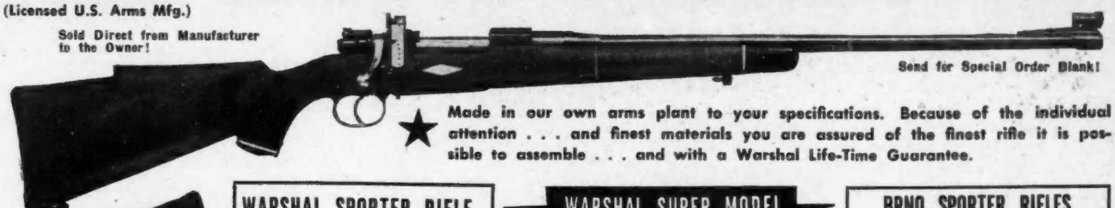

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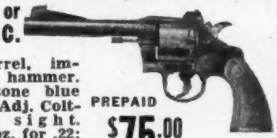

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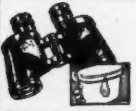

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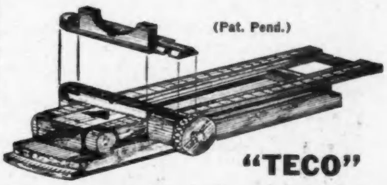

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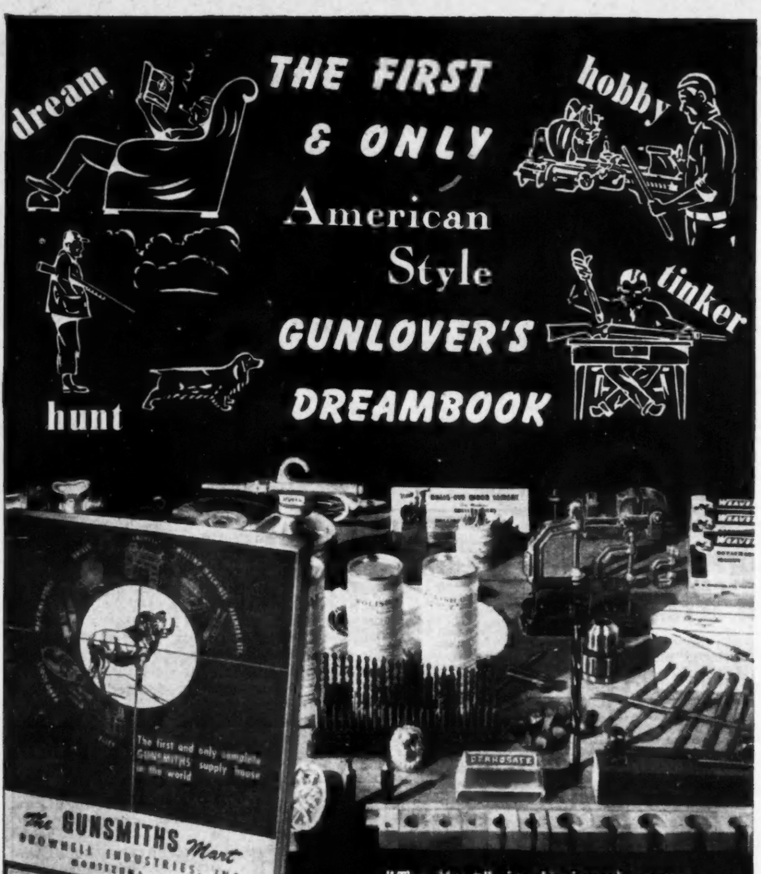
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*.224"	S.Pt.Rd.Nose H.V.	Sierra	45, 50 & 55	2.75
.228"	S.Pt.Semi-Spitzer	M & G	70	4.00
.257"	S.Pt.Semi-Spitzer	M & G	60 & 87	$4.00 & 4.20
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.257"	S.Pt.Semi-Spitzer	M & G	125	4.80
.257"	H.Pt.Spitzer	Collins	87	4.20
.257"	S.Pt.Spitzer	Collins	100 & 117	4.20
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.257"	S.Pt.Spitzer	Sierra	100	3.85
.263"	S.Pt.Spitzer	Ebel	120	4.50
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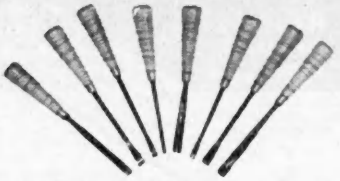

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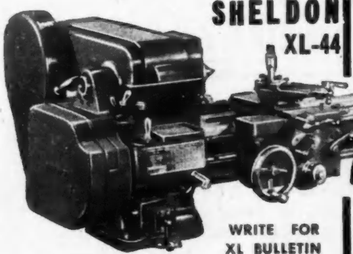

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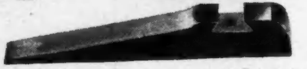

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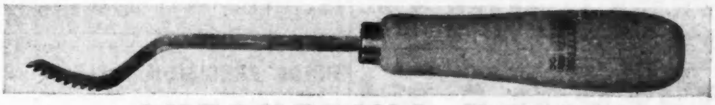

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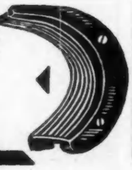

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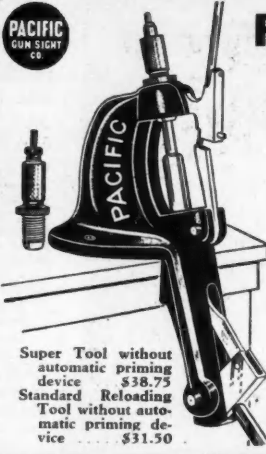

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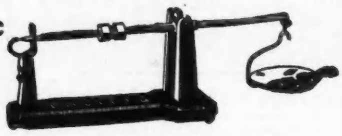

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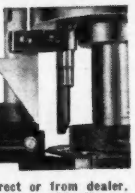

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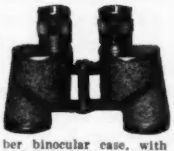

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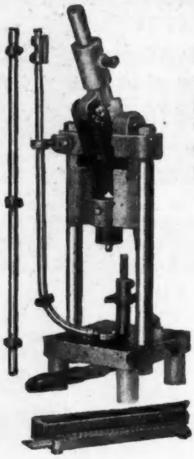

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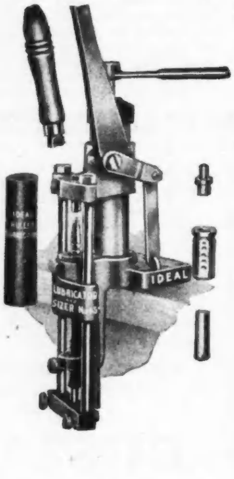

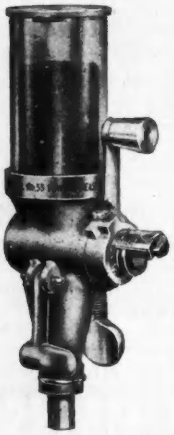

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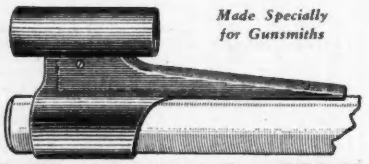

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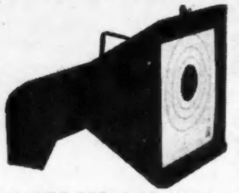

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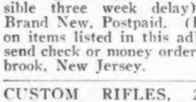

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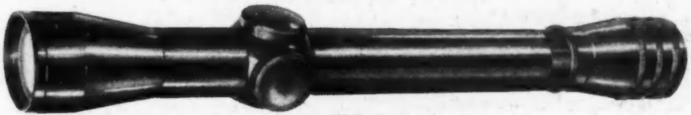

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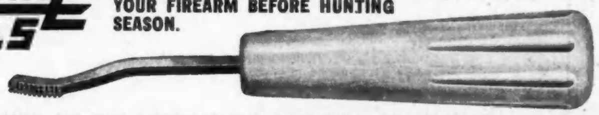

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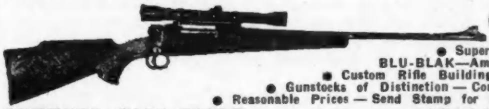

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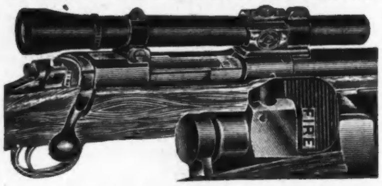

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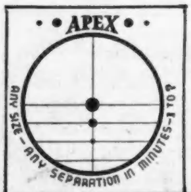

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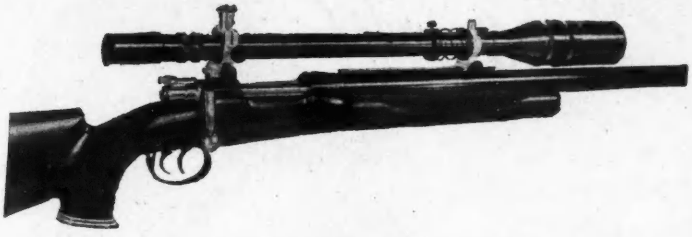

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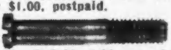

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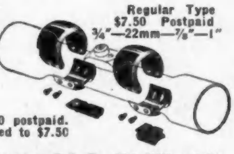

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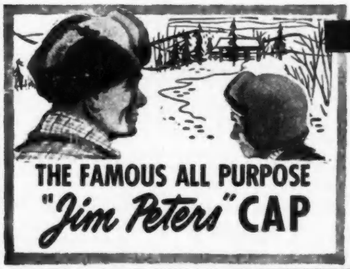

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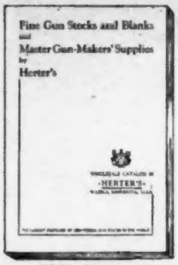
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Here is a stock featuring Herter's famous precision inletting, together with a complete set of fittings, including Bacite buttplate, pistol grip and forearm tip. Screws supplied for installation. The walnut in these stocks is guaranteed to be serviceable under the roughest field use. Available for Springfield, Enfield and Mauser. The finest value in the gunstock field today....

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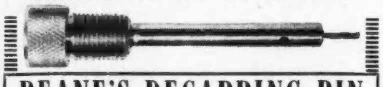

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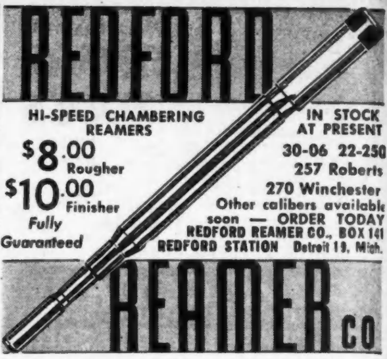

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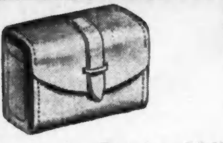

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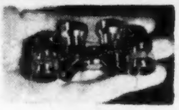

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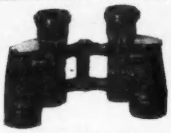

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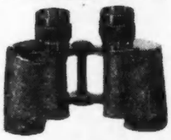

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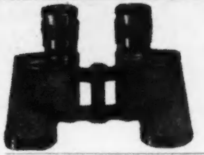

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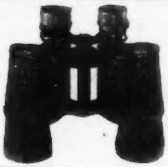

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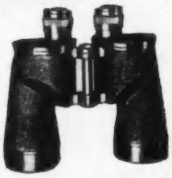

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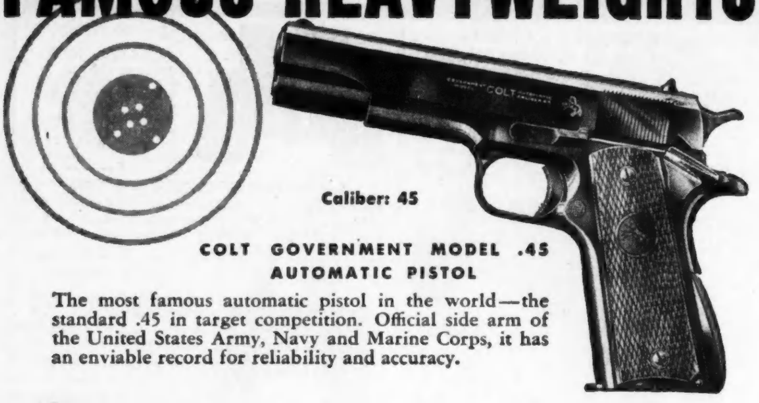

Caliber: 45

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The most famous automatic pistol in the world—the standard .45 in target competition. Official side arm of the United States Army, Navy and Marine Corps, it has an enviable record for reliability and accuracy.

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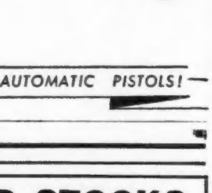

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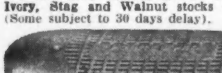

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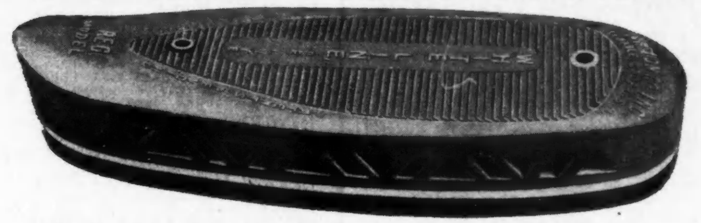
"WHITE LINE" RECOIL ABSORBER



Identical in Action to the DELUXE—but little more than half as thick!

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Manufacturers of "WHITE LINE" Products since 1935.

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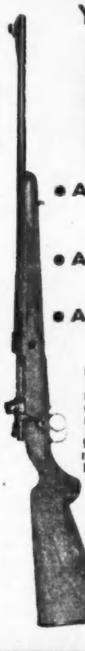

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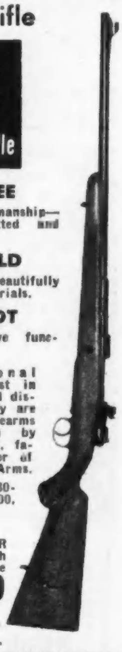

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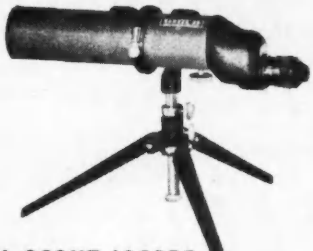

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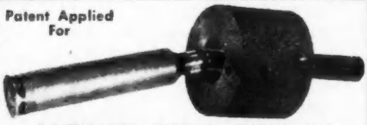

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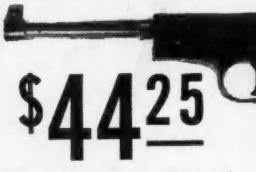

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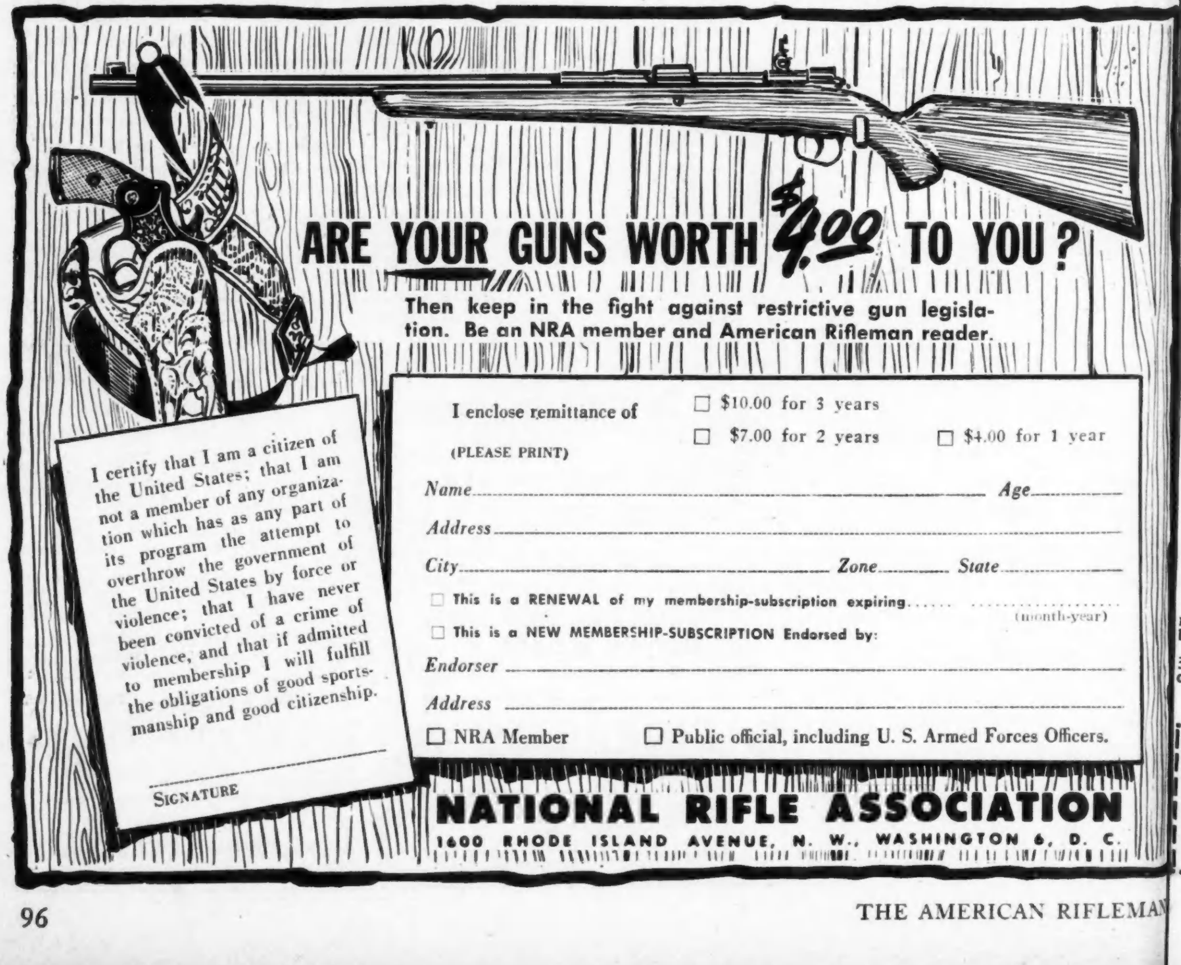

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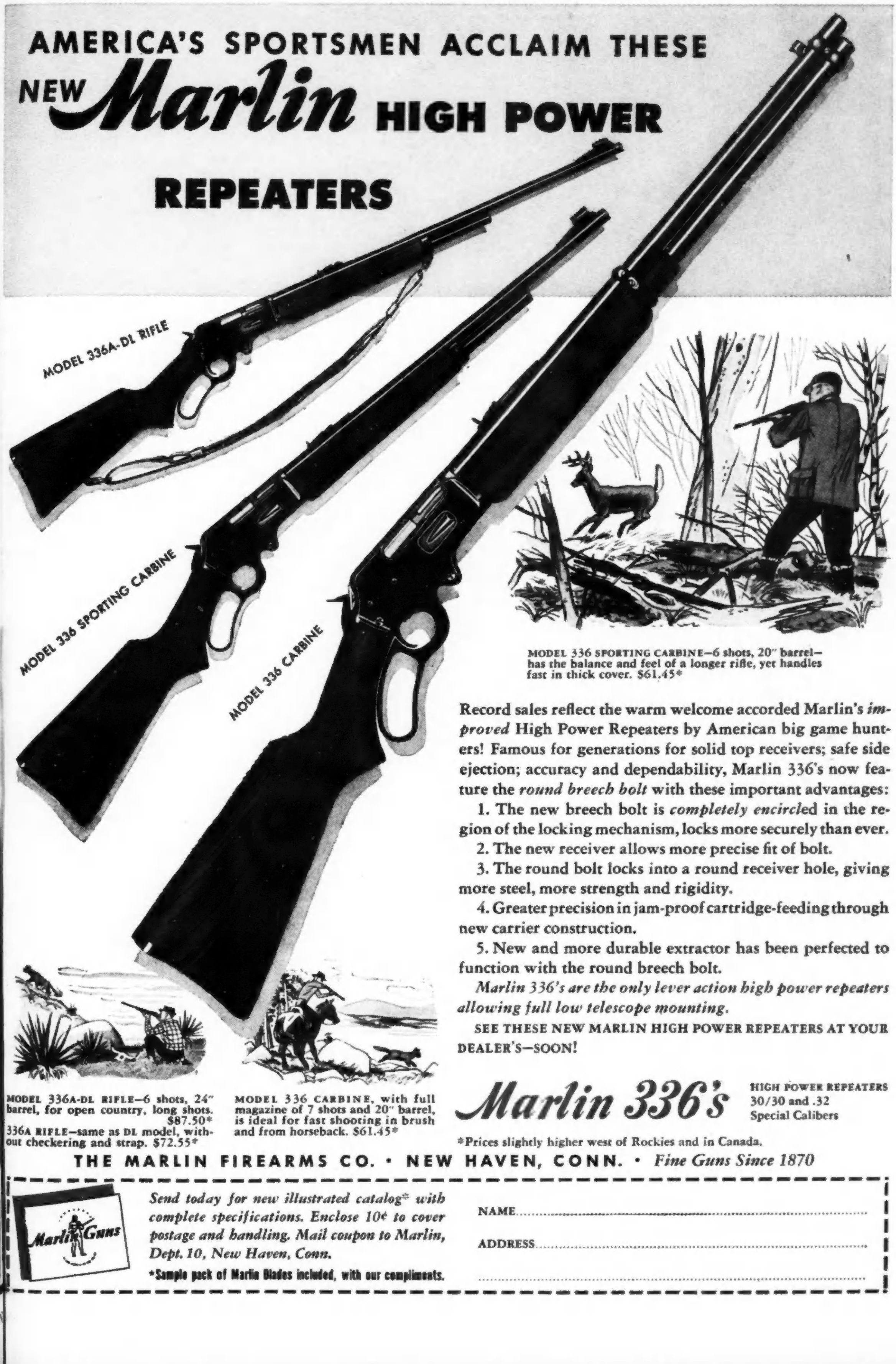

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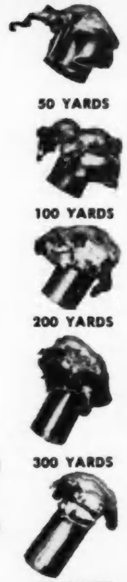
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